SD
11
.A2325

I91 0065

APPENDIX SUPPLEMENT

TO:

Volume and Weight Characteristics of a Typical Douglas-fir/ Western Larch Stand

Coram Experimental Forest, Mt.

GTR INT 92

Robert E. Benson and Joyce A. Schlieter

Intermountain Forest and Range Experiment Station
Forestry Sciences Laboratory
Missoula, Mt. 59806

National FS Library
USDA Forest Service

JUL 29 2013

240 W Prospect Rd
Fort Collins CO 80526

CONTENTS

	Page
Introduction	1
PART I -- Preharvest Stand Tables	4
PART II -- Preharvest Volume Tables	30
PART III -- Postharvest Stand Tables for Shelterwood Units	56
PART IV -- Postharvest Volume Tables	65
PART V -- Preharvest Crown Weights	91
PART VI -- Postharvest Crown Weights	117

INTRODUCTION

In 1973, an intensive study was begun on the Coram Experimental Forest in northwestern Montana. One of the study objectives was to compare three silvicultural cutting methods and four levels of utilization, before and after harvest. The study area consisted of approximately 100 acres (40.5 ha). This acreage was divided into six blocks with each cutting method being used on two blocks as follows:

Blocks	Cutting Methods
11, 21	Shelterwood, leaving about half the volume and aiming toward good height and species diversity; 35.1 and 21.5 acres (14.2 and 8.7 ha).
12, 22	Group selection, all merchantable trees cut; 7.5 and 6.0 acres (3.0 and 2.4 ha).
13, 23	Clearcut; 13.6 and 16.6 acres (5.5 and 6.7 ha).

Each block was then divided into four treatments (or utilization levels) as follows:

Treatments	Specifications
1	Intensive utilization of all trees 5 inches (12.7 cm) d.b.h. and larger.
2	Presently used commercial sawlog utilization.
3	Near complete removal of all material 3 inches (7.6 cm) d.b.h. and larger.
4	Intensive log utilization of logs cut from trees 7 inches (17.8 cm) d.b.h. and larger.

The purpose of this report is to make available detailed preharvest and postharvest information that was obtained for each block-treatment combination. This information supplements the data contained in the General Technical Report INT-92, "Volume and Weight Characteristics of a Typical Douglas-fir/Western Larch Stand" by Robert Benson and Joyce Schlieter (1980).

Part I presents the number of stems per acre before harvest by diameter class and species for each block and treatment. Part III gives the same information for the shelterwood units after harvest. In Parts II and IV, preharvest and postharvest volumes per acre are given by block and treatment as well as by component, species and size class. Parts V and VI contain preharvest and postharvest crown weights in pounds per acre by component and species for each block-treatment combination.

In this appendix, the following letter codes were used for species:

Abbreviation	Common Name	Scientific Name
WP	Western white pine	Pinus monticola Dougl.
WL	Western larch	Larix occidentalis Nutt.
DF	Douglas-fir	Pseudotsuga menziesii (Mirb.) Franco
WH	Western hemlock	Tsuga heterophylla (Raf.) Sarg
WC	Western redcedar	Thuja plicata Donn
LP	Lodgepole pine	Pinus contorta Dougl.
ES	Engelmann spruce	Picea engelmannii Parry
AF	Subalpine fir	Abies lasiocarpa (Hook.) Nutt.
PP	Ponderosa pine	Pinus ponderosa Laws.

Definitions of Table Components

Standing Green: Live, standing trees.

Standing Sound Dead: Standing dead trees or portions that are dead and have either no defect, or have sound defect such as crooks or checks.

Standing Unsound Dead: Standing dead trees or portions that are rotten, with either solid rot or crumbly rot.

Down Sound: Down material that has no defect or has sound defect such as crooks or checks.

Down Unsound: Down material that is rotten, with either solid rot or crumbly rot.

Sawtimber: Each standing tree 7 inches (17.8 cm) d.b.h. and larger was recorded (100% tally). Some of the information recorded was length of live crown, fork, crook, sweep, unsound defects, condition and product potential.

Permanent Plot: For each sample plot within a subtreatment unit, all standing trees were recorded. For each standing tree with at least a 3-inch (7.6 cm) d.b.h., additional information (similar to the sawtimber) was taken.

Leave Trees: These trees were designated to be left in the shelterwood cutting blocks, and included understory trees remaining in treatment 4 for all the cutting blocks.

Using the Tables

In all the tables, blanks in the body of the table indicate no data.

Each table is identified by title as well as by the block-treatment numbers (i.e., shelterwood, intensive tree utilization, 11-1).

For users of these tables who need to obtain the total volume or the total number of trees, the acreages of each block-treatment are given below:

Block-Treatment	Acres	Block-Treatment	Acres
11-1	6.7	21-1	6.7
11-2	14.9	21-2	4.8
11-3	7.3	21-3	5.4
11-4	6.2	21-4	4.6
12-1	1.7	22-1	1.6
12-2	2.2	22-2	1.3
12-3	1.9	22-3	1.6
12-4	1.7	22-4	1.5
13-1	2.9	23-1	5.1
13-2	3.8	23-2	3.4
13-3	3.7	23-3	4.7
13-4	3.2	23-4	3.4

PART I -- PREHARVEST STAND TABLES

Page

Table 1. --Preharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 11-1..... 6

Table 2. --Preharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 11-2..... 7

Table 3. --Preharvest stems per acre by diameter class and species for shelterwood, near complete removal, 11-3..... 8

Table 4. --Preharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 11-4..... 9

Table 5. --Preharvest stems per acre by diameter class and species for group selection, intensive tree utilization, 12-1.... 10

Table 6. --Preharvest stems per acre by diameter class and species for group selection, current sawlog utilization, 12-2.... 11

Table 7. --Preharvest stems per acre by diameter class and species for group selection, near complete removal, 12-3..... 12

Table 8. --Preharvest stems per acre by diameter class and species for group selection, intensive log utilization, 12-4..... 13

Table 9. --Preharvest stems per acre by diameter class and species for clearcut, intensive tree utilization, 13-1..... 14

Table 10.--Preharvest stems per acre by diameter class and species for clearcut, current sawlog utilization, 13-2..... 15

Table 11.--Preharvest stems per acre by diameter class and species for clearcut, near complete removal, 13-3..... 16

Table 12.--Preharvest stems per acre by diameter class and species for clearcut, intensive log utilization, 13-4..... 17

Table 13.--Preharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 21-1..... 18

Table 14.--Preharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 21-2..... 19

Table 15.--Preharvest stems per acre by diameter class and species for shelterwood, near complete removal, 21-3..... 20

Table 16. --Preharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 21-4..... 21

Page

Table 17.--Preharvest stems per acre by diameter class and species for group selection, intensive tree utilization, 22-1.... 22

Table 18.--Preharvest stems per acre by diameter class and species for group selection, current sawlog utilization, 22-2.... 23

Table 19.--Preharvest stems per acre by diameter class and species for group selection, near complete removal, 22-3..... 24

Table 20.--Preharvest stems per acre by diameter class and species for group selection, intensive log utilization, 22-4..... 25

Table 21.--Preharvest stems per acre by diameter class and species for clearcut, intensive tree utilization, 23-1..... 26

Table 22.--Preharvest stems per acre by diameter class and species for clearcut, current sawlog utilization, 23-2..... 27

Table 23.--Preharvest stems per acre by diameter class and species for clearcut, near complete removal, 23-3..... 28

Table 24.--Preharvest stems per acre by diameter class and species for clearcut, intensive log utilization, 23-4..... 29

Table 1. --Preharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 11-1.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0			0.3			0.1								0.4	0.4
WL	15	5	5	5	30	5.0			0.1	1.0	1.8	2.7	3.4	2.5	1.6	0.6	0.6	0.5	19.8	49.8
DF	135	215	70	40	460	20.0	10.0	8.9	9.4	8.3	7.2	5.8	2.5	2.1	.9	.5	.5	.1	76.2	536.2
WH					0			.7	.1	.1	.3	.1		.1					1.4	1.4
WC					0								.1						0.1	0.1
LP	5				5	5.0	.3	.3	.3										5.9	10.9
ES	80	155	110	30	375	5.0	5.7	3.3	1.6	.3	.3	.5		.1					16.8	391.8
AF	15		5	5	25		1.5	.5											2.0	27.0
OTH					0														0	0
TOT	250	375	190	80	895	35.0	17.5	14.0	11.5	9.7	9.7	9.1	6.0	4.8	2.5	1.1	1.1	0.6	122.6	1017.6

Table 2. --Preharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 11-2.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0		0.1	0.1	0.1	0.1		0.1							0.5	0.5
WL		10	20	15	45	5.0	.7	1.0	.6	1.1	2.1	2.2	1.3	1.9	0.8	0.3	0.5	0.1	17.6	62.6
DF	95	160	35	35	325	10.0	6.1	5.8	5.6	4.6	2.6	2.3	1.7	1.3	.5	.3	.2	.2	41.2	366.2
WH	10				10				.1										0.1	10.1
WC					0														0	0
LP		5	10		15	10.0	1.0	.6	.2	.1									11.9	26.9
ES	20	55	65	30	170	10.0	2.4	.9	.3	.1		.1							13.8	183.8
AF	165	10	5	10	190	15.0	1.1	.9											17.0	207.0
OTH					0														0	0
TOT	290	240	135	90	755	50.0	11.4	9.3	6.9	6.0	4.7	4.7	3.0	3.2	1.3	0.6	0.7	0.3	102.1	857.1

Table 3. --Preharvest stems per acre by diameter class and species for shelterwood, near complete removal, 11-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL	10	55	50	15	130	5.0	0.3	0.7	1.2	2.3	3.0	3.3	2.2	1.9	0.6	0.6		0.1	21.2	151.2
DF	200	365	105	35	705	30.0	11.5	17.9	9.9	5.6	3.6	2.9	.6	.6	.1				82.7	787.7
WH	10				10		.1	.1											0.2	10.2
WC					0		.1	.2											0.3	0.3
LP		5	5		10		.8	.8											1.6	11.6
ES	30	45	50	15	140		2.2	1.0	.3	.3	.1								3.9	143.9
AF	15				15		1.0	.4	.1	.1	.1								1.7	16.7
OTH					0														0	0
TOT	265	470	210	65	1010	35.0	16.0	21.1	11.5	8.3	6.8	6.2	2.8	2.5	0.7	0.6	0	0.1	111.6	1121.6

Table 4. --Preharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 11-4.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL		40	15		55	5.0	0.1	1.8	1.3	2.1	2.9	1.8	1.6	0.5			0.3		17.4	72.4
DF	160	240	40	25	465	10.0	10.6	14.2	9.0	2.6	4.0	1.8	1.3	.8	0.2	0.2			54.7	519.7
WH					0														0	0
WC					0				.3										0.3	0.3
LP			15		15		1.8	1.6	.2										3.6	18.6
ES	55	145	90	25	315	10.0	2.7	1.8	.3	.3									15.1	330.1
AF					0		2.1	1.1											3.2	3.2
OTH					0														0	0
TOT	215	425	160	50	850	25.0	17.3	20.5	11.1	5.0	6.9	3.6	2.9	1.3	0.2	0.2	0.3	0	94.3	944.3

Table 5. --Preharvest stems per acre by diameter class and species for group selection, intensive tree utilization, 12-1.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP	5				5			1.2	1.8	1.2	1.2								5.4	10.4
WL					0			.6	.6	.6	3.5	1.2	0.6	1.2	1.8	0.6			10.7	10.7
DF	295	365	125	30	815	25.0	9.4	17.6	14.1	18.2	12.3	7.1	2.9	1.8	1.2			0.6	110.2	925.2
WH	5				5														0	5.0
WC	5				5														0	5.0
LP					0		1.8	1.8	1.8	1.2									6.6	6.6
ES	5	35		15	55		10.6	5.3	5.9	4.1	2.3								28.2	83.2
AF	100	25	10	5	140		.6	.6											1.2	141.2
OTH					0														0	0
TOT	415	425	135	50	1025	25.0	22.4	27.1	24.2	25.3	19.3	8.3	3.5	3.0	3.0	0.6	0	0.6	162.3	1187.3

Table 6. --Preharvest stems per acre by diameter class and species for group selection, current sawlog utilization, 12-2.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0			0.9											0.9	0.9
WL		25		5	30		0.5			0.5	0.9	0.5	1.4		0.9				4.7	34.7
DF	70	230	130	20	450	20.0	17.3	16.4	15.0	9.5	9.1	4.1	3.2	5.0	1.8	2.3	0.5		104.2	554.2
WH					0														0	0
WC					0														0	0
LP				5	5														0	5.0
ES	15	65			80														0	80.0
AF	5				5	5.0				.5									5.5	10.5
OTH					0														0	0
TOT	90	320	130	30	570	25.0	17.8	17.3	15.0	10.5	10.0	4.6	4.6	5.0	2.7	2.3	0.5	0	115.3	685.3

Table 7. --Preharvest stems per acre by diameter class and species for group selection, near complete removal, 12-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL		25	5		30				0.5			1.0	1.6			0.5			3.6	33.6
DF	60	335	120	40	555	30.0	6.3	12.1	4.2	5.3	3.7	3.1	3.7	1.6	1.6	.5			72.1	627.1
WH	70			5	75			.5											0.5	75.5
WC				0															0	0
LP				0															0	0
ES	45	25	5	15	90	15.0	2.1	2.1	2.6	1.6	.5				.5				24.4	114.4
AF	70	100	105	20	295		1.0												1.0	296.0
OTH					0														0	0
TOT	245	485	235	80	1045	45.0	9.4	14.7	7.3	6.9	4.2	4.1	5.3	1.6	2.1	1.0	0	0	101.6	1146.6

Table 8. --Preharvest stems per acre by diameter class and species for group selection, intensive log utilization, 12-4

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP	10				10		1.2	0.6	0.6										2.4	12.4
WL		10	5		15			1.2	.6		2.3	0.6	0.6	0.6					5.9	20.9
DF	100	110	115	50	375	40.0	23.5	31.1	12.3	10.0	8.2	3.5	4.1	2.9	0.6				136.2	511.2
WH	5				5														0	5.0
WC					0				.6										0.6	0.6
LP					0														0	0
ES	20	5		5	30		.6	1.2	.6	.6									3.0	33.0
AF	65	10	15	15	105	5.0	4.1	1.2	.6										10.9	115.9
OTH					0												0.6		0.6	0.6
TOT	200	135	135	70	540	45.0	29.4	35.3	15.3	10.6	10.5	4.1	4.7	3.5	0.6	0	0.6	0	159.6	699.6

Table 9. --Preharvest stems per acre by diameter class and species for clearcut, intensive tree utilization, 13-1.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0			1.0											1.0	1.0
WL	5				5				0.3	1.7	3.1	1.7	4.1	1.4	0.7	0.3			13.3	18.3
DF	150	80	25	5	260		7.2	12.8	10.3	3.8	2.1	1.7	2.4	1.0	.3		0.7	0.7	43.0	303.0
WH	70	10			80		.3												0.3	80.3
WC	50				50										.3				0.3	50.3
LP					0														0	0
ES	340	55	55	15	465	10.0	5.5	6.2	2.1	1.7	1.0	.3		.3		.3			27.4	492.4
AF	405	65	35	20	525	5.0	.3	1.0											6.3	531.3
OTH					0	1.4	2.4	.7	.3										4.8	4.8
TOT	1020	210	115	40	1385	15.0	14.7	23.4	13.4	7.5	6.2	3.7	6.5	2.7	1.3	0.6	0.7	0.7	96.4	1481.4

Table 10. --Preharvest stems per acre by diameter class and species for clearcut, current sawlog utilization, 13-2.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0			0.3		0.3	0.5								1.1	1.1
WL					0			.3	0.3	1.8	1.8	2.4	3.2	2.1	2.4	1.3	0.6		16.2	16.2
DF	30	15	5	5	55	10.0	2.6	6.0	4.2	7.1	2.1	2.4	1.0	1.0	.5	.5		1.3	38.7	93.7
WH	200	25	30	30	285	5.0	2.1	1.6	1.0	.5	.3		.3	.3	.3				11.4	296.4
WC	10				10			.3	.3		.3								0.9	10.9
LP					0		.3	.5											0.8	0.8
ES	120	105	15	10	250	5.0	4.5	5.8	3.4	1.8	1.3	.8							22.6	272.6
AF	175	75	45	5	300		1.0												1.0	301.0
OTH					0		.5			.5									1.0	1.0
TOT	535	220	95	50	900	20.0	11.0	14.8	9.2	12.0	6.3	5.6	4.5	3.4	3.2	1.8	0.6	1.3	93.7	993.7

Table 11. --Preharvest stems per acre by diameter class and species for clearcut, near complete removal, 13-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP	30				30														0	30.0
WL		5			5				0.3	0.3	0.8	0.5	1.1	0.5	0.8	0.3		0.3	4.9	9.9
DF	280	60	75	30	445	35.0	8.1	11.1	5.1	2.7	3.2	3.0	3.2	2.4					73.8	518.8
WH	50	10	5		65														0	65.0
WC					0														0	0
LP					0														0	0
ES	85	10	20	15	130		5.1	2.4	1.3	.5	.3			.3					9.9	139.9
AF	370	5	10		385	5.0	1.6	1.3											7.9	392.9
OTH					0														0	0
TOT	815	90	110	45	1060	40.0	14.8	14.8	6.7	3.5	4.3	3.5	4.3	3.2	0.8	0.3	0	0.3	96.5	1156.5

Table 12. --Preharvest stems per acre by diameter class and species for clearcut, intensive log utilization, 13-4.

SPP	DIAMETER CLASS (Inches) 0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0		0.9	0.3	0.6										1.8	1.8
WL					0			.3	.6	0.6	0.9	1.2	2.5	2.2	0.9	0.6	0.9		10.7	10.7
DF	270	70	60	15	415	30.0	9.7	10.3	6.6	4.4	4.7	2.5	2.2	2.2	.3	.9			73.8	488.8
WH	30			5	35				.6										0.6	35.6
WC	15				15														0	15.0
LP					0		.3		.3										0.6	0.6
ES	75	15	5	15	110		3.7	4.1	4.4	2.2	1.9	.6	.3						17.2	127.2
AF	215	70	5	5	295		1.6	1.2											2.8	297.8
OTH					0														0	0
TOT	605	155	70	40	870	30.0	16.2	16.2	13.1	7.2	7.5	4.3	5.0	4.4	1.2	1.5	0.9	0	107.5	977.5

Table 13. --Preharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 21-1.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP				5	5														0	5.0
WL		30	20	5	55		0.3	0.3	1.5	1.5	3.7	3.6	3.6	1.2	0.6	0.5	0.3		17.1	72.1
DF	170	210	95	85	560	30.0	12.1	11.4	5.7	4.5	3.3	2.1	1.2	1.0		.6			71.9	631.9
WH					0														0	0
WC					0														0	0
LP			5	25	30	15.0	.7	.3		.1									16.1	46.1
ES	15	10	10		35		.7	.6	.7	.6									2.6	37.6
AF	125	20	25	15	185	20.0	10.6	7.8	3.0	.6									42.0	227.0
OTH					0														0	0
TOT	310	270	155	135	870	65.0	24.4	20.4	10.9	7.3	7.0	5.7	4.8	2.2	0.6	1.1	0.3	0	149.7	1019.7

Table 14. --Preharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 21-2.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0		0.4	0.4	0.2	0.4									1.4	1.4
WL		30	5	10	45			.4	.4	.2	1.2	1.9	1.7	2.7	1.0	0.2			9.7	54.7
DF	95	110	45	25	275	20.0	7.5	6.7	5.2	2.9	3.3	2.5	.4		.2	.6			49.3	324.3
WH	5				5														0	5.0
WC					0														0	0
LP					0						.2								0.2	0.2
ES	15	35	10	5	65	5.0	1.7	1.0	.2		.4				.2				8.5	73.5
AF	200	80	60	30	370	5.0	5.6	6.0	1.7	1.4	1.0	.2							20.9	390.9
OTH					0														0	0
TOT	315	255	120	70	760	30.0	15.2	14.5	7.7	4.9	6.1	4.6	2.1	2.7	1.4	0.8	0	0	90.0	850.0

Table 15. --Preharvest stems per acre by diameter class and species for shelterwood, near complete removal, 21-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0		0.4	0.4	0.2										1.0	1.0
WL		20	25	30	75		1.1	.2	.2		0.2	0.2	0.6	0.4					2.9	77.9
DF	20	140	65	35	260	5.0	11.5	15.2	7.2	5.2	4.3	1.3	.6	1.1	0.2		0.2		51.8	311.8
WH		5			5														0	5.0
WC					0														0	0
LP					0		.4												0.4	0.4
ES	60	45	25	10	140	5.0	1.5	.7	.4	.4	.4	.2							8.6	148.6
AF	630	85	90	30	835	75.0	5.7	3.0	.9	.2									84.8	919.8
OTH					0														0	0
TOT	710	295	205	105	1315	85.0	20.6	19.5	8.9	5.8	4.9	1.7	1.2	1.5	0.2	0	0.2	0	149.5	1464.5

Table 16. --Preharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 21-4.

SPP	DIAMETER CLASS (Inches) 0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP			5		5		0.2	0.4	0.4	0.2									1.2	6.2
WL	20	85	30	20	155		.4	.2	.9	.4	1.3	0.9	2.2	1.3	0.4	0.6	0.2		8.8	163.8
DF	75	150	90	75	390	25.0	10.9	10.4	7.2	5.0	2.8	3.5	.6	.6	.4	.2	.2		66.8	456.8
WH					0														0	0
WC					0						.2								0.2	0.2
LP					0						.2								0.2	0.2
ES	60	45	25	5	135	10.0	1.3	.9	.2	.6	.6	.4	.4		.2				14.6	149.6
AF	380	125	60	30	595	25.0	10.6	5.4	1.1		.4								42.5	637.5
OTH					0														0	0
TOT	535	405	210	130	1280	60.0	23.4	17.3	9.8	6.2	5.5	4.8	3.2	1.9	1.0	0.8	0.4	0	134.3	1414.3

Table 17. --Preharvest stems per acre by diameter class and species for group selection, intensive tree utilization, 22-1.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL					0		0.6	0.6		0.6	1.2	0.6	0.6	0.6	1.2				6.0	6.0
DF	805	15	15	15	850	30.0	5.0	10.6	5.6	4.4	2.5	4.4	2.5	.6		0.6		1.2	67.4	917.4
WH					0														0	0
WC					0														0	0
LP				5	5	10.0	2.5	1.9	2.5	.6									17.5	22.5
ES	125	25	10	15	175		.6	3.1	.6	.6			.6						5.5	180.5
AF	1215	120	45	25	1405		10.0	5.0	2.5										17.5	1422.5
OTH					0														0	0
TOT	2145	160	70	60	2435	40.0	18.6	21.2	11.2	6.2	3.7	5.0	3.7	1.2	1.2	0.6	0	1.2	113.9	2548.9

Table 18. --Preharvest stems per acre by diameter class and species for group selection, current sawlog utilization, 22-2.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL					0							2.3	1.5	4.6	3.1	0.8	1.5	1.5	15.3	15.3
DF	70	15	15	5	105		1.5	3.1	1.5		2.3	.8	2.3	2.3	1.5	2.3	1.5	3.8	22.9	127.9
WH					0														0	0
WC					0														0	0
LP					0														0	0
ES	15	20			35		3.8	3.1	.8								.8		8.5	43.5
AF	320	100	65	35	520	20.0	13.8	9.2	.8										43.8	563.8
OTH					0														0	0
TOT	405	135	80	40	660	20.0	19.1	15.4	3.1	0	2.3	3.1	3.8	6.9	4.6	3.1	3.8	5.3	90.5	750.5

Table 19. --Preharvest stems per acre by diameter class and species for group selection, near complete removal, 22-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP	50	5			55		0.6		0.6										1.2	56.2
WL					0				2.5	2.5			0.6						5.6	5.6
DF	235	70	30	60	395	25.0	7.5	5.0	9.4	7.5	1.2	1.9	5.0	1.2	3.1			0.6	66.8	461.8
WH					0														0	0
WC					0														0	0
LP					0		1.9	4.4	.6										6.9	6.9
ES	60	5			65	5.0	2.5	1.9											9.4	74.4
AF	1660	115	55	60	1890	50.0	22.5	14.4	4.4										91.3	1981.3
OTH					0														0	0
TOT	2005	195	85	120	2405	80.0	35.0	25.7	17.5	10.0	1.2	1.9	5.6	1.2	3.1	0	0	0.6	181.2	2596.2

Table 20. --Preharvest stems per acre by diameter class and species for group selection, intensive log utilization, 22-4.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL					0			2.0	1.3	1.3	0.7	2.0	1.3	0.7	0.7		0.7		10.7	10.7
DF	60	65	25	10	160	5.0	5.3	10.7	8.7	8.0	10.7	4.7	7.3	2.7	1.3	1.3	1.3	1.3	68.3	228.3
WH					0														0	0
WC					0														0	0
LP					0		.7	1.3								.7			2.7	2.7
ES	5	5			10		2.0	2.0	2.7		2.0		.7						9.4	19.4
AF	860	105	30	45	1040	40.0	17.3	11.3	8.0			.7		.7					78.0	1118.0
OTH					0														0	0
TOT	925	175	55	55	1210	45.0	25.3	27.3	20.7	9.3	13.4	7.4	9.3	4.1	2.0	2.0	2.0	1.3	169.1	1379.1

Table 21. --Preharvest stems per acre by diameter class and species for clearcut, intensive tree utilization, 23-1.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0		0.6	0.4	0.2										1.2	1.2
WL					0			.4	.8	1.2	1.2	1.2	2.2	1.0	1.2	0.4		0.2	9.8	9.8
DF	275	10	5	15	305		1.8	5.7	3.5	2.9	3.1	3.3	2.9	1.8	1.6	.6	0.4	.2	27.8	332.8
WH					0														0	0
WC					0														0	0
LP					0		.2	.2											0.4	0.4
ES	5	10			15		1.2	2.5	1.4	1.0	1.0	.2	.2						7.5	22.5
AF	1990	110	50	35	2185	50.0	16.7	11.6	6.3	.8	.4								85.8	2270.8
OTH					0														0	0
TOT	2270	130	55	50	2505	50.0	20.5	20.8	12.2	5.9	5.7	4.7	5.3	2.8	2.8	1.0	0.4	0.4	132.5	2637.5

Table 22. --Preharvest stems per acre by diameter class and species for clearcut, current sawlog utilization, 23-2.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0						0.3			0.3					0.6	0.6
WL					0					0.3	.3	0.6	0.3	1.5	0.6	0.1			3.7	3.7
DF	60	30	10		100		1.2	2.6	1.8	2.1	2.3	1.5	2.3	.9	1.5	1.8	2.3		20.3	120.3
WH					0														0	0
WC					0														0	0
LP					0														0	0
ES	100	25	5		140	5.0	2.6	.6	.9	.9	.6	.3	.3						11.2	151.2
AF	1335	50	70	30	1485	40.0	12.3	7.6	4.1	2.6	.6				.3				67.5	1552.5
OTH					0														0	0
TOT	1495	105	85	40	1725	45.0	16.1	10.8	6.8	5.9	4.1	2.4	2.9	2.7	2.4	1.9	2.3	0	103.3	1828.3

Table 23. --Preharvest stems per acre by diameter class and species for clearcut, near complete removal, 23-3.

SPP	DIAMETER CLASS (Inches)																			
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP					0														0	0
WL					0					0.2	0.6	0.6	0.8	1.7	0.6	0.4		0.2	5.1	5.1
DF	130	5	5	5	145		1.7	3.0	1.9	2.3	2.1	1.9	2.8	.6	1.3	1.5	1.7	.4	21.2	166.2
WH					0														0	0
WC					0														0	0
LP					0														0	0
ES	10	5			15	5.0	1.9	.8	1.9	1.7	1.1	.4	.4		.2				13.4	28.4
AF	1040	45	60	10	1155	15.0	13.0	8.1	4.0	1.9	.8								42.8	1197.8
OTH					0														0	0
TOT	1180	55	65	10	1315	20.0	16.6	11.9	7.8	6.1	4.6	2.9	4.0	2.3	2.1	1.9	1.7	0.6	82.5	1397.5

Table 24. --Preharvest stems per acre by diameter class and species for clearcut, intensive log utilization, 23-4.

SPP	DIAMETER CLASS (Inches)																		
	0-1	2	4	6	SUBT 0-7	8	10	12	14	16	18	20	22	24	26	28	30	30+	SUBT 7+	GRAND TOTALS
	number per acre																			
WP	5				5														0	5.0
WL					0				0.3	0.6	0.6	1.5	0.3	1.2	1.2	0.3			6.0	6.0
DF	60	15	20	5	100	5.0	2.3	1.5	2.9	3.2	2.6	.9	.6	1.2	.6	.6	0.6	0.3	22.3	122.3
WH					0														0	0
WC					0														0	0
LP					0														0	0
ES	70	25	10	10	115	5.0	.9	1.2	2.9	3.2	1.5	.3	.3						15.3	130.3
AF	510	65	35	55	665	55.0	9.1	11.2	.9	.3									76.5	741.5
OTH					0														0	0
TOT	645	105	65	75	885	65.0	12.3	13.9	7.0	7.3	4.7	2.7	1.2	2.4	1.8	0.9	0.6	0.3	120.1	1005.1

PART II -- PREHARVEST VOLUME TABLES

Page

Table 25.--Preharvest volume by component, species and size class for shelterwood, intensive tree utilization, 11-1..... 32

Table 26.--Preharvest volume by component, species and size class for shelterwood, current sawlog utilization, 11-2..... 33

Table 27.--Preharvest volume by component, species and size class for shelterwood, near complete removal, 11-3..... 34

Table 28.--Preharvest volume by component, species and size class for shelterwood, intensive log utilization, 11-4..... 35

Table 29.--Preharvest volume by component, species and size class for group selection, intensive tree utilization, 12-1.... 36

Table 30.--Preharvest volume by component, species and size class for group selection, current sawlog utilization, 12-2.... 37

Table 31.--Preharvest volume by component, species and size class for group selection, near complete removal, 12-3..... 38

Table 32.--Preharvest volume by component, species and size class for group selection, intensive log utilization, 12-4..... 39

Table 33.--Preharvest volume by component, species and size class for clearcut, intensive tree utilization, 13-1..... 40

Table 34.--Preharvest volume by component, species and size class for clearcut, current sawlog utilization, 13-2..... 41

Table 35.--Preharvest volume by component, species and size class for clearcut, near complete removal, 13-3..... 42

Table 36.--Preharvest volume by component, species and size class for clearcut, intensive log utilization, 13-4..... 43

Table 37.--Preharvest volume by component, species and size class for shelterwood, intensive tree utilization, 21-1..... 44

Table 38.--Preharvest volume by component, species and size class for shelterwood, current sawlog utilization, 21-2..... 45

Table 39.--Preharvest volume by component, species and size class for shelterwood, near complete removal, 21-3..... 46

Page

Table 40.--Preharvest volume by component, species and size class for shelterwood, intensive log utilization, 21-4..... 47

Table 41.--Preharvest volume by component, species and size class for group selection, intensive tree utilization, 22-1.... 48

Table 42.--Preharvest volume by component, species and size class for group selection, current sawlog utilization, 22-2.... 49

Table 43.--Preharvest volume by component, species and size class for group selection, near complete removal, 22-3..... 50

Table 44.--Preharvest volume by component, species and size class for group selection, intensive log utilization, 22-4..... 51

Table 45.--Preharvest volume by component, species and size class for clearcut, intensive tree utilization, 23-1..... 52

Table 46.--Preharvest volume by component, species and size class for clearcut, current sawlog utilization, 23-2..... 53

Table 47.--Preharvest volume by component, species and size class for clearcut, near complete removal, 23-3..... 54

Table 48.--Preharvest volume by component, species and size class for clearcut, intensive log utilization, 23-4..... 55

Table 25. --Preharvest volume by component, species and size class for shelterwood, intensive tree utilization, 11-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	1	16									17	1
WL	53	1730	6	119			6	14	6	148	2082	146
DF	330	2791	24	188			9		45	475	3862	270
WH	2	13									15	1
WC		14									14	1
LP	12	30	10	2							54	4
ES	236	274	15	14			3		14	14	570	40
AF	29	118		2			4	2	47	12	214	15
PP												
OTHER							5		8		13	1
TOTALS	663	4986	55	325	0	0	27	16	120	649	6841	--
TOTALS IN m^3/ha	46	349	4	23	0	0	2	1	8	45	--	478

Table 26. --Preharvest volume by component, species and size class for shelterwood, current sawlog utilization, 11-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP	1	12									13	1
WL	86	1220	12	69			7	3	9	310	1716	120
DF	202	1504	29	58			13		23	685	2514	176
WH		4									4	0
WC											0	0
LP	44	98	3	2							147	10
ES	183	101	3				7		2		296	21
AF	79	128	15				1	1	27	31	282	20
PP												
OTHER												
TOTALS	595	3067	62	129	0	0	28	4	61	1026	4972	--
TOTALS IN m^3/ha	42	215	4	9	0	0	2	0	4	72	--	348

Table 27. --Preharvest volume by component, species and size class for shelterwood, near complete removal, 11-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP											0	0
WL	137	1441	33	2	7	206			16	237	2079	145
DF	353	1858	10		7	206	18	70	99	838	3459	242
WH	1	3				1					5	0
WC	1	9				1					11	1
LP	12	43	10	9		8					82	6
ES	96	63	3			10					172	12
AF	4	38				2			10		54	4
PP												
OTHER												
TOTALS	604	3455	56	11	14	434	18	70	125	1075	5862	--
TOTALS IN m^3/ha	42	242	4	1	1	30	1	5	9	75	--	410

Table 28. --Preharvest volume by component, species and size class for shelterwood, intensive log utilization, 11-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP											0	0
WL	42	995			2	104	2		7	312	1464	102
DF	191	1721	27		5	238	1		66	995	3244	227
WH											0	0
WC		4									4	0
LP	10	60	6			12					88	6
ES	192	160				23	5	8	2	6	396	28
AF	6	33				4			3	38	84	6
PP												
OTHER												
TOTALS	441	2973	33	0	7	381	8	8	78	1351	5280	--
TOTALS IN m^3/ha	31	208	2	0	0	27	1	1	5	95	--	369

Table 29. --Preharvest volume by component, species and size class for group selection, intensive tree utilization, 12-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	9	200			1	78					288	20
WL	15	950			3	365		1		13	1347	94
DF	364	3630	3		20	1435	8		108	431	5999	420
WH											0	0
WC											0	0
LP	13	173				63					249	17
ES	89	697			2	300	2	20	61	185	1356	95
AF	18	22	7			5	2		17	14	85	6
PP												
OTHER									16		16	1
TOTALS	508	5672	10	0	26	2246	12	21	202	643	9340	--
TOTALS IN m^3/ha	36	397	1	0	2	157	1	1	14	45	--	653

Table 30. --Preharvest volume by component, species and size class for group selection, current sawlog utilization, 12-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	2	20				15					37	3
WL	29	395	11		2	146		6		60	649	45
DF	344	3622	13		11	1022	11	3	42	1173	6241	437
WH											0	0
WC											0	0
LP	20										20	1
ES			1								1	0
AF	14	55				11					80	6
PP												
OTHER												
TOTALS	409	4092	25	0	13	1194	11	9	42	1233	7028	--
TOTALS IN m^3/ha	29	286	2	0	1	84	1	1	3	86	--	492

Table 31. --Preharvest volume by component, species and size class for group selection, near complete removal, 12-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP											0	0
WL	9	348	4		4	326		38		280	1009	71
DF	302	1943	2		23	2190	15	16	65	1433	5989	419
WH	15	5				2					22	2
WC											0	0
LP											0	0
ES	103	421			3	293	4		25		849	59
AF	135	17	10			13	13		51	99	338	24
PP												
OTHER							5	14	18	11	48	3
TOTALS	564	2734	16	0	30	2824	37	68	159	1823	8255	--
TOTALS IN m^3/ha	39	191	1	0	2	198	3	5	11	128	--	578

Table 32. --Preharvest volume by component, species and size class for group selection, intensive log utilization, 12-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	5	36				32					73	5
WL	13	377	2		3	342		5		20	762	53
DF	502	3225	11		22	2450	22	13	96	1752	8093	566
WH											0	0
WC	1	26				14					41	3
LP	7	69			1	99					176	12
ES	17	66	2		1	64	5		4		159	11
AF	91	127	6		1	66	2	26	7	84	410	29
PP	1	87			1	117					206	14
OTHER												
TOTALS	637	4013	21	0	29	3184	29	44	107	1856	9920	--
TOTALS IN m^3/ha	45	281	1	0	2	223	2	3	7	130	--	693

Table 33. --Preharvest volume by component, species and size class for clearcut, intensive tree utilization, 13-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	2	14				14					30	2
WL	20	1215			14	629	3	131	13	579	2604	182
DF	95	1431	5		18	833	8	108	115	1444	4057	284
WH	1	2				1				91	95	7
WC		37				18					55	4
LP											0	0
ES	115	479			6	293	10		8		911	64
AF	96	31				9		55	22	133	346	24
PP												
OTHER							8		15	31	54	4
TOTALS	329	3209	5	0	38	1797	29	294	173	2278	8152	--
TOTALS IN m^3/ha	23	225	0	0	3	126	2	21	12	159	--	571

Table 34. --Preharvest volume by component, species and size class for clearcut, current sawlog utilization, 13-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	2	41				14					57	4
WL	21	1507			8	496		5	13	250	2300	161
DF	83	1259	9		6	346		13	13	713	2442	171
WH	129	98			1	56	4		37	33	358	25
WC	1	21				5					27	2
LP	1	14				4					19	1
ES	83	326	2		2	144	12	98	54	472	1193	83
AF	54	12	1			3	11		52	168	301	21
PP												
OTHER									6		6	0
TOTALS	374	3278	12	0	17	1068	27	116	175	1636	6703	--
TOTALS IN m^3/ha	26	229	1	0	1	75	2	8	12	114	--	468

Table 35. --Preharvest volume by component, species and size class for clearcut, near complete removal, 13-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	1	20				3					24	2
WL	7	362			3	132				27	531	37
DF	285	1426			12	546	31	101	171	2275	4847	339
WH	1										1	0
WC											0	0
LP		11								27	38	3
ES	80	178	1		2	76				16	353	25
AF	24	71				15			7		117	8
PP												
OTHER												
TOTALS	398	2068	1	0	17	772	31	101	178	2345	5911	--
TOTALS IN m^3/ha	28	145	0	0	1	54	2	7	12	164	--	414

Table 36. --Preharvest volume by component, species and size class for clearcut, intensive log utilization, 13-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	4	34				4					42	3
WL	18	1299			11	337				329	1994	140
DF	236	1747	5		14	439	8	37	142	1200	3828	268
WH	14	16				5					35	2
WC											0	0
LP	1	36				4		3		50	94	7
ES	62	565			6	187					820	57
AF	26	37				6			31		100	7
PP												
OTHER												
TOTALS	361	3734	5	0	31	982	8	40	173	1579	6913	--
TOTALS IN m^3/ha	25	261	0	0	2	69	1	3	12	110	--	484

Table 37. --Preharvest volume by component, species and size class for shelterwood, intensive tree utilization, 21-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP	13	2			5	120					140	10
WL	61	1324	12		17	429	9	12	14	223	2101	147
DF	456	1444	22	21	1	30	5		25	891	2895	203
WH											0	0
WC											0	0
LP	140	104	18			1	9		24		296	21
ES	8	80				2					90	6
AF	179	518	15	19	13	348			32	66	1190	83
PP												
OTHER									7		7	0
TOTALS	857	3472	67	40	36	930	23	12	102	1180	6719	--
TOTALS IN m^3/ha	60	243	5	3	3	65	2	1	7	83	--	470

Table 38. --Preharvest volume by component, species and size class for shelterwood, current sawlog utilization, 21-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	5	73			1	15					94	7
WL	38	638	5		11	203	24	21	28	188	1156	81
DF	196	870	20	14	9	168	5	3	18	602	1905	133
WH											0	0
LP		20									20	1
ES	39	105				6			16	14	180	13
AF	181	259			4	79	13	6	90	423	1055	74
PP												
OTHER												
TOTALS	459	1965	25	14	25	471	42	30	152	1227	4410	--
TOTALS IN m^3/ha	32	137	2	1	2	33	3	2	11	86	--	309

Table 39. --Preharvest volume by component, species and size class for shelterwood, near complete removal, 21-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	2	7									9	1
WL	124	178	13		1	15		10	20	436	797	56
DF	249	1330			5	93		18	69	620	2384	167
WH											0	0
WC											0	0
LP	1	4									5	0
ES	64	126				6	3		24	14	237	17
AF	395	554	52	44	1	24	2		35	19	1126	79
PP												
OTHER												
TOTALS	835	2199	65	44	7	138	5	28	148	1089	4558	--
TOTALS IN m^3/ha	58	154	5	3	0	10	0	2	10	76	--	319

Table 40. --Preharvest volume by component, species and size class for sheleterwood, intensive log utilization, 21-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP	11	42									53	4
WL	111	854	28	7	2	104	1	4	40	44	1195	84
DF	409	1416	17	6	3	126	2	2	67	425	2473	173
WH		4				1					5	0
WC		13									13	1
LP		13									13	1
ES	67	241				4			3		315	22
AF	256	430	27		1	39	10		45	79	887	62
PP												
OTHER									6		6	0
TOTALS	854	3013	72	13	6	275	13	6	161	548	4961	--
TOTALS IN m^3/ha	60	211	5	1	0	19	1	0	11	38	--	347

Table 41. --Preharvest volume by component, species and size class for group selection, intensive tree utilization, 22-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP											0	0
WL	10	658			12	812				43	1535	107
DF	191	1874			23	1565	9		99	855	4616	323
WH											0	0
WC											0	0
LP	82	345			1	26	2		44	39	539	38
ES	49	186			2	113					350	24
AF	138	313			4	289	10	12	196	303	1265	89
PP												
OTHER												
TOTALS	470	3376	0	0	42	2805	21	12	339	1240	8305	--
TOTALS IN m^3/ha	33	236	0	0	3	196	1	1	24	87	--	581

Table 42. --Preharvest volume by component, species and size class for group selection, current sawlog utilization, 22-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------											
WP											0	0
WL	20	2423			15	2485	2		26		4971	348
DF	48	2927	3		18	2712	1	141	12	1008	6870	481
WH									3		3	0
WC											0	0
LP											0	0
ES	17	282			6	1001					1306	91
AF	243	518	55	93	2	275	17	16	79	442	1740	122
PP												
OTHER												
TOTALS	328	6150	58	93	41	6473	20	157	120	1450	14890	--
TOTALS IN m^3/ha	23	430	4	7	3	453	1	11	8	101	--	1042

Table 43. --Preharvest volume by component, species and size class for group selection, near complete removal, 22-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	3	24				3					30	2
WL	4	247			1	36				182	470	33
DF	283	2294	3		22	873	20	26	70	684	4275	299
WH											0	0
WC											0	0
LP	14	144			2	74	7		3		244	17
ES	20	87	4		1	25					137	10
AF	439	1011	13	11	9	353	19	3	188	366	2412	169
PP												
OTHER												
TOTALS	763	3807	20	11	35	1364	46	29	261	1232	7568	--
TOTALS IN m^3/ha	53	266	1	1	2	95	3	2	18	86	--	529

Table 44. --Preharvest volume by component, species and size class for group selection, intensive log utilization, 22-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP											0	0
WL	17	787	19	22	7	461					1313	92
DF	144	3924			22	949			81	1077	6197	434
WH											0	0
WC											0	0
LP	4	160				14				25	203	14
ES	15	314			2	103				14	448	31
AF	325	971	11	32	5	239	4	21	85	361	2054	144
PP												
OTHER												
TOTALS	505	6156	30	54	36	1766	4	21	166	1477	10215	--
TOTALS IN m^3/ha	35	431	2	4	3	124	0	1	12	103	--	715

Table 45. --Preharvest volume by component, species and size class for clearcut, intensive tree utilization, 23-1.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	3	24				12					39	3
WL	14	893			10	326				220	1463	102
DF	73	1694	16		21	644	2	98	65	2516	5129	359
WH											0	0
WC											0	0
LP	1	5				1					7	0
ES	11	199			3	96					309	22
AF	339	880	10	25	8	256	4	29	96	226	1873	131
PP												
OTHER												
TOTALS	441	3695	26	25	42	1335	6	127	161	2962	8820	--
TOTALS IN m^3/ha	31	259	2	2	3	93	0	9	11	207	--	617

Table 46. --Preharvest volume by component, species and size class for clearcut, current sawlog utilization, 23-2.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP	1	48				6					55	4
WL	5	439			10	310				126	890	62
DF	34	1711	15	26	26	794	7	36	36	1750	4435	310
WH											0	0
WC											0	0
LP											0	0
ES	57	222			5	148			13		445	31
AF	309	894	49		8	238	7	9	109	607	2230	156
PP												
OTHER												
TOTALS	406	3314	64	26	49	1496	14	45	158	2483	8055	--
TOTALS IN m^3/ha	28	232	4	2	3	105	1	3	11	174	--	563

Table 47. --Preharvest volume by component, species and size class for clearcut, near complete removal, 23-3.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP						6					6	0
WL	1	93			1	35		21		114	265	19
DF	29	759	14		14	414	2	5	27	2107	3371	236
WH											0	0
WC											0	0
LP											0	0
ES	21	176			2	73		7	6	80	365	26
AF	177	460	15		5	165	3	5	88	612	1530	107
PP												
OTHER												
TOTALS	228	1488	29	0	22	693	5	38	121	2913	5537	--
TOTALS IN m^3/ha	16	104	2	0	2	48	0	3	8	204	--	388

Table 48. --Preharvest volume by component, species and size class for clearcut, intensive log utilization, 23-4.

SPECIES	STANDING						DOWN				TOTALS	TOTALS IN m^3/ha
	Green		Sound Dead		Unsound Dead		Sound		Unsound			
	3-6	6+	3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	ft^3/acre											
WP						7					7	0
WL	7	612			5	150				14	788	55
DF	69	967	3		8	244		105	52	1734	3182	223
WH											0	0
WC											0	0
LP											0	0
ES	54	306			3	89	3			147	602	42
AF	405	748	27	12	4	119			33	504	1852	130
PP												
OTHER												
TOTALS	535	2633	30	12	20	609	3	105	85	2399	6431	--
TOTALS IN m^3/ha	37	184	2	1	1	43	0	7	6	168	--	450

PART III -- POSTHARVEST STAND TABLES FOR SHELTERWOOD UNITS

Page

Table 49.--Postharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 11-1..... 57

Table 50.--Postharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 11-2..... 58

Table 51.--Postharvest stems per acre by diameter class and species for shelterwood, near complete removal, 11-3..... 59

Table 52.--Postharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 11-4..... 60

Table 53.--Postharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 21-1..... 61

Table 54.--Postharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 21-2..... 62

Table 55.--Postharvest stems per acre by diameter class and species for shelterwood, near complete removal, 21-3..... 63

Table 56.--Postharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 21-4..... 64

Table 49. --Postharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 11-1.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP													0
WL		0.1	0.4	0.3						1.2	6.1	1.9	10.0
DF		1.2	3.9	3.1	2.8	2.4	2.1	1.9	1.8	7.3	4.2	1.0	31.7
LP		.3	.6	.3	.4	.4		.1					2.1
ES		1.0	2.7	2.5	1.8	.9	.7	.1	.1	.1	.3		10.2
AF			.9	.6	.3	.3							2.1
O[1/]						.1	.3	.1		.1	.3		0.9
TOT	0	2.6	8.5	6.8	5.3	4.1	3.1	2.2	1.9	8.7	10.9	2.9	57.0

[1/] For this section, this category includes WC, WH, PP and Birch

Table 50. --Postharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 11-2.

SPP	DIAMETER CLASS (Inches) 6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP					0.1		-- [1/]	--			--		0.3
WL	--	--	0.6	0.3	.5	0.1	0.1	0.1		1.7	3.3	1.3	8.2
DF	--	0.9	2.0	2.9	.9	1.1	1.2	1.2	1.1	4.5	2.9	.5	19.4
LP		.1	.3	.3	.4	.4							1.5
ES	0.3	.6	2.5	2.1	.8	.4	.1	.2	--	--			7.2
AF	.1	.3	.3	.4	.3	--	.1						1.6
O		--	--										0.1
TOT	0.6	2.1	5.8	6.0	3.0	2.1	1.7	1.6	1.1	6.2	6.3	1.8	38.3

[1/] In this table only, this means less than 0.1 trees per acre.

Table 51. --Postharvest stems per acre by diameter class and species for shelterwood, near complete removal, 11-3.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP													0
WL		0.4	0.8	0.2						1.9	3.7	1.2	8.2
DF	0.8	1.5	6.7	9.3	2.5	2.3	1.8	2.3	2.9	4.9	2.3	.1	37.4
LP		.4	.1	.4	.1						.1		1.1
ES	.1	.7	3.1	1.5	1.0	.3			.1				6.8
AF	.1		.5	.8	.3								1.7
O				.3					.3	.3			.9
TOT	1.0	3.0	11.2	12.5	3.9	2.6	1.8	2.3	3.3	7.1	6.1	1.3	56.1

Table 52. --Postharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 11-4.

SPP	DIAMETER CLASS (Inches)												
	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP				0.2									0.2
WL		0.2	0.3				0.3	0.2		2.4	3.2	1.0	7.6
DF		3.2	4.7	4.8	3.2	1.9	1.4	2.9	1.8	4.3	2.7		30.9
LP		1.1	.5	1.1	.3	.3							3.3
ES		.3	2.4	1.8	.6	1.0	.2		.3	.2		.2	7.0
AF					.6	.2	.2						1.0
O			.3				.2						0.5
TOT	0	4.8	8.2	7.9	4.7	3.4	2.3	3.1	2.1	6.9	5.9	1.2	50.5

Table 53. --Postharvest stems per acre by diameter class and species for shelterwood, intensive tree utilization, 21-1.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP			0.3										0.3
WL	0.1	0.6	.4	0.1		0.1		0.3	0.6	2.3	4.5	1.0	10.0
DF	.3	3.4	8.5	10.1	5.2	3.1	1.2	1.5	1.5	4.3	2.5	.3	41.9
LP		.6	1.9	1.9		.1							4.5
ES			.4	.1	.4		.3	.3	.1	.4			2.0
AF		1.3	3.7	5.1	3.1	1.9	.7	.3					16.1
0													0
TOT	0.4	5.9	15.2	17.3	8.7	5.2	2.2	2.4	2.2	7.0	7.0	1.3	74.8

Table 54. --Postharvest stems per acre by diameter class and species for shelterwood, current sawlog utilization, 21-2.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP				0.2	0.4		0.4		0.2	0.4			1.6
WL		0.2	0.2	.2					.4	1.2	2.5	2.1	6.8
DF	0.8	1.9	4.6	5.0	3.1	2.5	1.2	1.2	2.9	5.8	2.3	.8	32.1
LP			.2							.2			0.4
ES	.2	.2	.8	1.0	.2	.4	.2	.2		.4		.2	3.8
AF	.4	1.2	1.5	1.5	2.9	1.9	.4	.8	.2				10.8
0													0
TOT	1.4	3.5	7.3	7.9	6.6	4.8	2.2	2.2	3.7	8.0	4.8	3.1	55.5

Table 55. --Postharvest stems per acre by diameter class and species for shelterwood, near complete removal, 21-3.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP						0.2							0.2
WL		0.2	1.1	0.9	0.2	.2				0.2	0.9		3.7
DF	0.2	2.4	5.4	5.7	3.9	3.0	5.5	1.7	2.2	7.0	2.0	0.4	39.4
LP													0
ES		.4	1.5	1.1	.4	.4		.2		.5	.2		4.7
AF	.2	.7	2.2	1.8	.4	.4	.4	.4	.2				6.7
0													0
TOT	0.4	3.7	10.2	9.5	4.9	4.2	5.9	2.3	2.4	7.7	3.1	0.4	54.7

Table 56. --Postharvest stems per acre by diameter class and species for shelterwood, intensive log utilization, 21-4.

	DIAMETER CLASS (Inches)												
SPP	6	7	8	9	10	11	12	13	14	15-18	19-24	25+	TOTALS
	number per acre												
WP			0.4	0.2			0.4	0.2	0.2	0.2			1.6
WL		1.5	.9	.4		0.2		.2		.6	2.6	1.5	7.9
DF		5.9	7.2	9.1	3.3	3.0	3.0	2.0	.9	4.6	2.4	.4	41.8
LP			.2							.2			0.4
ES		1.3	1.3	.9		.4				1.1	.6	.4	6.0
AF		.9	2.0	3.0	1.3	1.1	.6	.4		.4			9.7
O										.2			0.2
TOT	0	9.6	12.0	13.6	4.6	4.7	4.0	2.8	1.1	7.3	5.6	2.3	67.6

PART IV -- POSTHARVEST VOLUME TABLES

Page

Table 57.--Postharvest volume by component, species and size class for shelterwood, intensive tree utilization, 11-1..... 67

Table 58.--Postharvest volume by component, species and size class for shelterwood, current sawlog utilization, 11-2..... 68

Table 59.--Postharvest volume by component, species and size class for shelterwood, near complete removal, 11-3..... 69

Table 60.--Postharvest volume by component, species and size class for shelterwood, intensive log utilization, 11-4..... 70

Table 61.--Postharvest volume by component, species and size class for group selection, intensive tree utilization, 12-1.... 71

Table 62.--Postharvest volume by component, species and size class for group selection, current sawlog utilization, 12-2.... 72

Table 63.--Postharvest volume by component, species and size class for group selection, near complete removal, 12-3..... 73

Table 64.--Postharvest volume by component, species and size class for group selection, intensive log utilization, 12-4..... 74

Table 65.--Postharvest volume by component, species and size class for clearcut, intensive tree utilization, 13-1..... 75

Table 66.--Postharvest volume by component, species and size class for clearcut, current sawlog utilization, 13-2..... 76

Table 67.--Postharvest volume by component, species and size class for clearcut, near complete removal, 13-3..... 77

Table 68.--Postharvest volume by component, species and size class for clearcut, intensive log utilization, 13-4..... 78

Table 69.--Postharvest volume by component, species and size class for shelterwood, intensive tree utilization, 21-1..... 79

Table 70.--Postharvest volume by component, species and size class for shelterwood, current sawlog utilization, 21-2..... 80

Table 71.--Postharvest volume by component, species and size class for shelterwood, near complete removal, 21-3..... 81

Page

Table 72.--Postharvest volume by component, species and size class for shelterwood, intensive log utilization, 21-4..... 82

Table 73.--Postharvest volume by component, species and size class for group selection, intensive tree utilization, 22-1.... 83

Table 74.--Postharvest volume by component, species and size class for group selection, current sawlog utilization, 22-2.... 84

Table 75.--Postharvest volume by component, species and size class for group selection, near complete removal, 22-3..... 85

Table 76.--Postharvest volume by component, species and size class for clearcut, intensive log utilization, 22-4..... 86

Table 77.--Postharvest volume by component, species and size class for clearcut, intensive tree utilization, 23-1..... 87

Table 78.--Postharvest volume by component, species and size class for clearcut, current sawlog utilization, 23-2..... 88

Table 79.--Postharvest volume by component, species and size class for clearcut, near complete removal, 23-3..... 89

Table 80.--Postharvest volume by component, species and size class for clearcut, intensive log utilization, 23-4..... 90

Table 57.--Postharvest volume by component, species and size class for shelterwood, intensive tree utilization, 11-1.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL	1034	14	9			12	14		48	1131	79
DF	1253	53	125			22	71	9	302	1835	128
WH	27	6	23		34					90	6
WC	14	2								16	1
LP	33	16				7				56	4
ES	171	70	51			38	29	16	23	398	28
AF	25	29				9	18	3		84	6
OTHER		15	9			11	22	36	146	239	17
TOTALS	2557	205	217	0	34	99	157	64	519	3849	--
TOTALS IN m^3/ha	179	14	15	0	2	7	11	4	36	--	269

Table 58. --Postharvest volume by component, species and size class for shelterwood, current sawlog utilization, 11-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP	4									4	0
WL	719	21	36			11	207	1	284	1279	89
DF	763	150	52		6	9	146	4	408	1538	108
WH										0	0
WC										0	0
LP	25	4								29	2
ES	78	143	78	1	5	26		9		340	24
AF	18	38	9			24	21	4	13	127	9
OTHER		11		1		22	18	15	285	352	25
TOTALS	1607	367	175	2	11	92	392	33	990	3669	--
TOTALS IN m^3/ha	112	26	12	0	1	6	27	2	69	--	257

Table 59. --Postharvest volume by component, species and size class for shelterwood, near complete removal, 11-3.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL	717		13			6	51	2	454	1243	87
DF	883	5	12			9		13	435	1357	95
WH	8									8	1
WC	14									14	1
LP	21					1		6		28	2
ES	62	4				4		3		73	5
AF	19					9		8		36	3
OTHER								4		4	0
TOTALS	1724	9	25	0	0	29	51	36	889	2763	--
TOTALS IN m^3/ha	121	1	2	0	0	2	4	3	62	--	194

Table 60. --Postharvest volume by component, species and size class for shelterwood, intensive log utilization, 11-4.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	ft^3/acre										
WP	2									2	0
WL	669	5				7	24	10	611	1326	93
DF	900	18		1		1	10	56	864	1850	129
WH	2									2	0
WC	4									4	0
LP	45									45	3
ES	259	16				11	7	18	18	329	23
AF	16	2				5		18	16	57	4
OTHER		20				4		6		30	2
TOTALS	1897	61	0	1	0	28	41	108	1509	3645	--
TOTALS IN m^3/ha	133	4	0	0	0	2	3	8	106	--	254

Table 61. --Postharvest volume by component, species and size class for group selection, intensive tree utilization, 12-1.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL		4					9	2	160	175	12
DF	1	183	271			17	17	39	635	1163	81
WH										0	0
WC										0	0
LP										0	0
ES		53	12		5	11	4	5	155	245	17
AF		14	13						9	36	3
OTHER		20	69	18		5	2	8	14	136	10
TOTALS	1	274	365	18	5	33	32	54	973	1755	--
TOTALS IN m^3/ha	0	19	26	1	0	2	2	4	68	--	123

Table 62. --Postharvest volume by component, species and size class for group selection, current sawlog utilization, 12-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL		30				10	8	15	86	149	10
DF		337	258	6		14	165	57	167	1004	70
WH										0	0
WC										0	0
LP						4	32	4		40	3
ES										0	0
AF						2			9	11	1
OTHER		38	19			2				59	4
TOTALS	0	405	277	6	0	32	205	76	262	1263	--
TOTALS IN m^3/ha	0	28	19	0	0	2	14	5	18	--	88

Table 63. --Postharvest volume by component, species and size class for group selection, near complete removal, 12-3.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	ft^3/acre										
WP										0	0
WL		2	22			2				26	2
DF		21				5	28	22	371	447	31
WH										0	0
WC						2				2	0
LP										0	0
ES		2						7	38	47	3
AF		7				8	11	15	29	70	5
OTHER		5				1		1		7	0
TOTALS	0	37	22	0	0	18	39	45	438	599	--
TOTALS IN m^3/ha	0	3	2	0	0	1	3	3	31	--	41

Table 64. --Postharvest volume by component, species and size class for group selection, intensive log utilization, 12-4.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP		4								4	0
WL		2	23			12	12	3	117	169	12
DF	154	85	82	2	2	20	98	47	533	1023	72
WH										0	0
WC										0	0
LP		2								2	0
ES		5				4	12	4	11	36	3
AF		20	9			10	6	17	4	66	5
OTHER		6				2		4		12	1
TOTALS	154	124	114	2	2	48	128	75	665	1312	--
TOTALS IN m^3/ha	11	9	8	0	0	3	9	5	47	--	93

Table 65. --Postharvest volume by component, species and size class for clearcut, intensive tree utilization, 13-1.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL		13	12			2	84		152	263	18
DF		26	10			13	12	30	277	368	26
WH										0	0
WC										0	0
LP										0	0
ES		18				12	70		98	198	14
AF		26	9			13		13	29	90	6
OTHER		5	27			23	69	52	633	809	57
TOTALS	0	88	58	0	0	63	235	95	1189	1728	--
TOTALS IN m^3/ha	0	6	4	0	0	4	16	7	83	--	121

Table 66. --Postharvest volume by component, species and size class for clearcut, current sawlog utilization, 13-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	ft^3/acre										
WP		9								9	1
WL		7	44			6	63	6	105	231	16
DF		21	27	7	1	14	125	11	447	653	46
WH		57	23							80	6
WC										0	0
LP										0	0
ES		85	137	1	92	47	87	21	265	735	51
AF		71				43		17		131	9
OTHER		2	16			31	96	24	373	542	38
TOTALS	0	252	247	8	93	141	371	79	1190	2381	--
TOTALS IN m^3/ha	0	18	17	1	7	10	26	6	83	--	167

Table 67. --Postharvest volume by component, species and size class for clearcut, near complete removal, 13-3.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------	----------	ft^3/acre	----------	----------	----------	----------	----------	----------		
WP										0	0
WL		2					28		97	127	9
DF		7	10			32	45	62	542	698	49
WH										0	0
WC										0	0
LP										0	0
ES			6		4				21	31	2
AF						21	9	24	41	95	7
OTHER										0	0
TOTALS	0	9	16	0	4	53	82	86	701	951	--
TOTALS IN m^3/ha	0	1	1	0	0	4	6	6	49	--	67

Table 68. --Postharvest volume by component, species and size class for clearcut, intensive log utilization, 13-4.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP		4								4	0
WL		9	10						18	37	3
DF	9	28	40			41	68	83	480	749	52
WH		7								7	0
WC										0	0
LP										0	0
ES	17	18	26			9		7	26	103	7
AF		7				33	15	10	33	98	7
OTHER								6	12	18	1
TOTALS	26	73	76	0	0	83	83	106	569	1016	--
TOTALS IN m^3/ha	2	5	5	0	0	6	6	7	40	--	70

Table 69. --Postharvest volume by component, species and size class for shelterwood, intensive tree utilization, 21-1.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP	2									2	0
WL	762	28	12			10	32	13	139	996	70
DF	869	97	28			14	35	19	489	1551	109
WH										0	0
WC										0	0
LP	47	4				21		2		74	5
ES	48									48	3
AF	213	36				48	49	44	117	507	35
OTHER					18	13	29	42	583	685	48
TOTALS	1941	165	40	0	18	106	145	120	1328	3863	--
TOTALS IN m^3/ha	136	12	3	0	1	7	10	8	93	--	270

Table 70. --Postharvest volume by component, species and size class for shelterwood, current sawlog utilization, 21-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP	47									47	3
WL	809	4				5	45	1	207	1071	75
DF	853	137	26		51	15	50	7	278	1417	99
WH										0	0
WC										0	0
LP	23									23	2
ES	84	21	26						23	154	11
AF	148	137	54		2	31	124	45	98	639	45
OTHER		5				34	37	47	304	427	30
TOTALS	1964	304	106	0	53	85	256	100	910	3778	--
TOTALS IN m^3/ha	137	21	7	0	4	6	18	7	64	--	265

Table 71. --Postharvest volume by component, species and size class for shelterwood, near complete removal, 21-3.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP	4									4	0
WL	120								20	140	10
DF	927	15		1		3	91	9	434	1480	104
WH										0	0
WC										0	0
LP										0	0
ES	75						3		25	103	7
AF	78	9				7	6	43	34	177	12
OTHER						6		1		7	0
TOTALS	1204	24	0	1	0	16	100	53	513	1911	--
TOTALS IN m^3/ha	84	2	0	0	0	1	7	4	36	--	133

Table 72. --Postharvest volume by component, species and size class for shelterwood, intensive log utilization, 21-4.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	ft^3/acre										
WP	53									53	4
WL	667	2	36		3	2	30	21	261	1022	72
DF	1172		14			8	14	22	434	1664	116
WH										0	0
WC	13									13	1
LP	16									16	1
ES	257	5				6	11		43	322	23
AF	356	34	14			21	91	41	147	704	49
OTHER										0	0
TOTALS	2534	41	64	0	3	37	146	84	885	3794	--
TOTALS IN m^3/ha	177	3	4	0	0	3	10	6	62	--	266

Table 73. --Postharvest volume by component, species and size class for group selection, intensive tree utilization, 22-1.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			m^3/ha
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		
	----------ft^3/acre----------										
WP										0	0
WL		9	206			9	18	28	65	335	23
DF		7	26			3		17	197	250	17
WH										0	0
WC										0	0
LP		18				19	5	28	67	137	10
ES		6		7		4	29	8	547	601	42
AF	34	93	9			54	18	204	304	716	50
OTHER						1		1	49	51	4
TOTALS	34	133	241	7	0	90	70	286	1229	2090	--
TOTALS IN m^3/ha	2	9	17	0	0	6	5	20	86	--	146

Table 74. --Postharvest volume by component, species and size class for group selection, current sawlog utilization, 22-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL		2	122				46	7	344	521	36
DF		6	689			2	5	6	116	824	58
WH										0	0
WC										0	0
LP						6			17	23	2
ES		3					90	23	327	443	31
AF		150	100	3	2	42	64	115	350	826	58
OTHER										0	0
TOTALS	0	161	911	3	2	50	205	151	1154	2637	--
TOTALS IN m^3/ha	0	11	64	0	0	3	14	11	81	--	185

Table 75. --Postharvest volume by component, species and size class for group selection, near complete removal, 22-3.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL							19	4	362	385	27
DF		11	16				2	19	435	483	34
WH										0	0
WC										0	0
LP			19							19	1
ES										0	0
AF		16	12			12	113	30	259	442	31
OTHER										0	0
TOTALS	0	27	47	0	0	12	134	53	1056	1329	--
TOTALS IN m^3/ha	0	2	3	0	0	1	9	4	74	--	93

Table 76. --Postharvest volume by component, species and size class for group selection, intensive log utilization, 22-4.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL			18					7	166	191	13
DF	15	9	24			4	79	28	378	537	38
WH										0	0
WC										0	0
LP										0	0
ES		4	9					7		20	1
AF	16	16	19			11	9	36	351	458	32
OTHER										0	0
TOTALS	31	29	70	0	0	15	88	78	895	1206	--
TOTALS IN m^3/ha	2	2	5	0	0	1	6	5	63	--	84

Table 77. --Postharvest volume by component, species and size class for clearcut, intensive tree utilization, 23-1.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------	----------	ft^3/acre	----------	----------	----------	----------	----------	----------		
WP										0	0
WL			92				64	6	21	183	13
DF		16				7	269	12	634	938	66
WH										0	0
WC										0	0
LP										0	0
ES		18				4				22	2
AF	43	45	53			43	33	22	228	467	33
OTHER		2				28	35	64	695	824	58
TOTALS	43	81	145	0	0	82	401	104	1578	2434	--
TOTALS IN m^3/ha	3	6	10	0	0	6	28	7	110	--	172

Table 78. --Postharvest volume by component, species and size class for clearcut, current sawlog utilization, 23-2.

SPECIES	STANDING	DOWN GREEN				DOWN DEAD				TOTALS	TOTALS IN
	Green	Sound		Unsound		Sound		Unsound			
		3-6	6+	3-6	6+	3-6	6+	3-6	6+		m^3/ha
	ft^3/acre										
WP										0	0
WL							61		29	90	6
DF		31	54		62	11	373	15	834	1380	97
WH										0	0
WC										0	0
LP										0	0
ES		16				6	20	1	60	103	7
AF		184	46		6	50	45	15	182	528	37
OTHER						20	130	51	1234	1435	100
TOTALS	0	231	100	0	68	87	629	82	2339	3536	--
TOTALS IN m^3/ha	0	16	7	0	5	6	44	6	164	--	247

Table 79. --Postharvest volume by component, species and size class for clearcut, near complete removal, 23-3.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL			49				14	7	455	525	37
DF	10					3	92	10	991	1106	77
WH										0	0
WC										0	0
LP										0	0
ES								13		13	1
AF						1	24	66	270	361	25
OTHER										0	0
TOTALS	10	0	49	0	0	4	130	96	1716	2005	--
TOTALS IN m^3/ha	1	0	3	0	0	0	9	7	120	--	140

Table 80. --Postharvest volume by component, species and size class for clearcut, intensive log utilization, 23-4.

SPECIES	STANDING Green	DOWN GREEN Sound 3-6	DOWN GREEN Sound 6+	DOWN GREEN Unsound 3-6	DOWN GREEN Unsound 6+	DOWN DEAD Sound 3-6	DOWN DEAD Sound 6+	DOWN DEAD Unsound 3-6	DOWN DEAD Unsound 6+	TOTALS	TOTALS IN m^3/ha
	----------ft^3/acre----------										
WP										0	0
WL									470	470	33
DF	10	9				11	78	14	1290	1412	99
WH										0	0
WC										0	0
LP										0	0
ES			12						63	75	5
AF	32	21				3	40	50	295	441	31
OTHER										0	0
TOTALS	42	30	12	0	0	14	118	64	2118	2398	--
TOTALS IN m^3/ha	3	2	1	0	0	1	8	4	148	--	168

PART V -- PREHARVEST CROWN WEIGHTS

Page

Table 81. --Preharvest crown weights by component and species for shelterwood, intensive tree utilization, 11-1..... 93

Table 82. --Preharvest crown weights by component and species for shelterwood, current sawlog utilization, 11-2..... 94

Table 83. --Preharvest crown weights by component and species for shelterwood, near complete removal, 11-3..... 95

Table 84. --Preharvest crown weights by component and species for shelterwood, intensive log utilization, 11-4..... 96

Table 85. --Preharvest crown weights by component and species for group selection, intensive tree utilization, 12-1..... 97

Table 86. --Preharvest crown weights by component and species for group selection, current sawlog utilization, 12-2..... 98

Table 87. --Preharvest crown weights by component and species for group selection, near complete removal, 12-3..... 99

Table 88. --Preharvest crown weights by component and species for group selection, intensive log utilization, 12-4..... 100

Table 89. --Preharvest crown weights by component and species for clearcut, intensive tree utilization, 13-1..... 101

Table 90. --Preharvest crown weights by component and species for clearcut, current sawlog utilization, 13-2..... 102

Table 91. --Preharvest crown weights by component and species for clearcut, near complete removal, 13-3..... 103

Table 92. --Preharvest crown weights by component and species for clearcut, intensive log utilization, 13-4..... 104

Table 93. --Preharvest crown weights by component and species for shelterwood, intensive tree utilization, 21-1..... 105

Table 94. --Preharvest crown weights by component and species for shelterwood, current sawlog utilization, 21-2..... 106

Table 95. --Preharvest crown weights by component and species for shelterwood, near complete removal, 21-3..... 107

Page

Table 96. --Preharvest crown weights by component and species for shelterwood, intensive log utilization, 21-4..... 108

Table 97. --Preharvest crown weights by component and species for group selection, intensive tree utilization, 22-1..... 109

Table 98. --Preharvest crown weights by component and species for group selection, current sawlog utilization, 22-2..... 110

Table 99. --Preharvest crown weights by component and species for group selection, near complete removal, 22-3..... 111

Table 100.--Preharvest crown weights by component and species for group selection, intensive log utilization, 22-4..... 112

Table 101.--Preharvest crown weights by component and species for clearcut, intensive tree utilization, 23-1..... 113

Table 102.--Preharvest crown weights by component and species for clearcut, current sawlog utilization, 23-2..... 114

Table 103.--Preharvest crown weights by component and species for clearcut, near complete removal, 23-3..... 115

Table 104.--Preharvest crown weights by component and species for clearcut, intensive log utilization, 23-4..... 116

Table 81. --Preharvest crown weights by component and species for shelterwood, intensive tree utilization, 11-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	10.6	7.3	9.9	5.3					33.1	0.04
WL	496.7	745.1	1170.1	993.4	60	60	80	280	3885.3	4.4
DF	4781.4	2732.2	5293.7	4098.4	1960	1460	2040	3220	25,585.7	28.7
WH	151.3	77.9	123.8	105.4					458.4	0.5
WC	22.2	5.2	18.5	28.2					74.1	0.1
LP	75.4	61.9	78.0	53.8	40	40	40	40	429.1	0.5
ES	866.4	529.5	649.8	361.0	3580	1840	1660	2880	12,366.7	13.8
AF	66.4	39.5	61.1	12.6	220	100	140	120	759.6	0.8
PP									0	0
TOTALS	6470.4	4198.6	7404.9	5658.1	5860	3500	3960	6540	43,592.0	--
TOTALS IN t/ha	7.3	4.7	8.3	6.3	6.6	3.9	4.4	7.3	--	48.8

Table 82. --Preharvest crown weights by component and species for shelterwood, current sawlog utilization, 11-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	11.0	8.6	12.7	8.6					40.9	0.05
WL	398.8	598.1	939.9	797.5	120	180	180	600	3814.3	4.3
DF	2458.8	1405.1	2722.3	2107.6	1720	1120	1560	2160	15,253.8	17.1
WH	13.3	5.6	10.9	9.3					39.1	0.04
WC									0	0
LP	65.1	53.5	67.5	46.5	140	100	120	220	812.6	0.9
ES	242.2	148.0	181.7	100.9	2600	1340	1220	1640	7472.8	8.4
AF	74.8	51.6	105.8	25.8	920	480	660	440	2758.0	3.1
PP									0	0
TOTALS	3264.0	2270.5	4040.8	3096.2	5500	3220	3740	5060	30,191.5	--
TOTALS IN t/ha	3.7	2.5	4.5	3.5	6.2	3.6	4.2	5.7	--	33.9

Table 83. --Preharvest crown weights by component and species for shelterwood, near complete removal, 11-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	11.8	15.1	26.9	30.1					83.9	0.1
WL	378.5	567.7	892.1	756.9	240	320	380	2680	6215.2	7.0
DF	3969.6	2108.9	4093.7	2232.9	2720	1980	2800	4700	24,605.1	27.6
WH	24.3	12.5	19.9	16.9					73.6	0.1
WC	63.8	16.0	46.3	33.5					159.6	0.2
LP	59.2	48.6	61.3	42.3	20	20	20	60	331.4	0.4
ES	235.0	143.6	176.3	97.9	1600	820	740	960	4772.8	5.3
AF	55.3	38.2	78.2	19.1					190.8	0.2
PP									0	0
TOTALS	4797.5	2950.6	5394.7	3229.6	4580	3140	3940	8400	36,432.4	--
TOTALS IN t/ha	5.4	3.3	6.0	3.6	5.1	3.5	4.4	9.4	--	40.8

Table 84. --Preharvest crown weights by component and species for shelterwood, intensive log utilization, 11-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	351.3	526.9	828.0	702.5	120	120	120	680	3448.7	3.9
DF	3585.7	1904.9	3697.8	2017.0	1320	1000	1340	2320	17,185.4	19.2
WH									0	0
WC	10.3	2.6	7.5	5.4					25.8	0.03
LP	94.5	77.6	97.9	67.5	40	20	20	80	497.5	0.6
ES	384.3	234.8	288.2	160.1	3420	1760	1560	2480	10,287.4	11.5
AF	103.1	61.3	114.3	19.5					298.2	0.3
PP									0	0
TOTALS	4529.2	2808.1	5033.7	2972.0	4900	2900	3040	5560	31,743.0	--
TOTALS IN t/ha	5.1	3.1	5.6	3.3	5.5	3.2	3.4	6.2	--	35.5

Table 85. --Preharvest crown weights by component and species for group selection, intensive tree utilization, 12-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	125.3	97.4	143.8	97.4					463.9	0.5
WL	287.8	431.7	678.3	575.5					1973.3	2.2
DF	6609.5	3776.9	7317.6	5665.3	2740	1960	2640	4080	34,789.3	39.0
WH									0	0
WC									0	0
LP	240.7	197.7	249.3	171.9					859.6	1.0
ES	2310.0	1411.7	1732.5	962.5	560	280	280	360	7896.7	8.8
AF	37.7	26.0	53.3	13.0	400	200	200	220	1150.0	1.3
PP									0	0
TOTALS	9611.0	5941.4	10,174.8	7485.6	3700	2440	3120	4660	47,132.8	--
TOTALS IN t/ha	10.8	6.7	11.4	8.4	4.1	2.7	3.5	5.2	--	52.8

Table 86. --Preharvest crown weights by component and species for group selection, current sawlog utilization, 12-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	31.5	21.7	29.6	15.8					98.6	0.1
WL	122.7	184.0	289.2	245.2	40	40	60	200	1181.3	1.3
DF	6058.2	3218.4	6247.6	3407.8	2080	1540	2160	3140	27,852.0	31.2
WH									0	0
WC									0	0
LP					40	20	20	60	140	0.2
ES					260	120	100	300	780	0.9
AF	75.2	51.9	106.4	26.0	200	120	160	60	799.5	0.9
PP									0	0
TOTALS	6287.6	3476.8	6672.8	3695.0	2620	1840	2500	3760	30,851.4	--
TOTALS IN t/ha	7.0	3.9	7.5	4.1	2.9	2.1	2.8	4.2	--	34.5

Table 87. --Preharvest crown weights by component and species for group selection, near complete removal, 12-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	112.0	168.0	264.1	224.1	20	40	20	160	1008.2	1.1
DF	5186.9	2964.0	5742.7	4445.9	2560	1860	2580	3960	29,299.5	32.8
WH	24.5	12.6	20.0	17.1	100	40	60	80	354.2	0.4
WC									0	0
LP									0	0
ES	707.5	432.4	530.7	294.8	1320	700	680	640	5305.4	5.9
AF	25.1	13.6	27.8	6.8	2520	1240	1260	2040	7133.3	8.0
PP									0	0
TOTALS	6056.0	3590.6	6585.3	4988.7	6520	3880	4600	6880	43,100.6	--
TOTALS IN t/ha	6.8	4.0	7.4	5.6	7.3	4.3	5.2	7.7	--	48.3

Table 88. --Preharvest crown weights by component and species for group selection, intensive log utilization, 12-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	45.7	31.4	42.8	22.8					142.7	0.2
WL	196.5	185.0	381.5	265.9	40	40	40	160	1308.9	1.5
DF	7536.2	4003.6	7771.7	4239.1	2600	1940	2980	3700	34,770.6	38.9
WH									0	0
WC	49.6	11.3	38.2	42.5					141.6	0.2
LP	189.1	155.3	195.8	135.0					675.2	0.8
ES	195.9	119.7	146.9	81.6	120	60	60	100	884.1	1.0
AF	243.9	145.0	224.1	46.1	860	480	560	500	3059.1	3.4
PP	104.5	9.5	218.6	399.1					731.7	0.8
TOTALS	8561.4	4660.8	9019.6	5232.1	3620	2520	3640	4460	41,713.9	--
TOTALS IN t/ha	9.6	5.2	10.1	5.9	4.1	2.8	4.1	5.0	--	46.8

Table 89. --Preharvest crown weights by component and species for clearcut, intensive tree utilization, 13-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	18.6	12.8	17.5	9.3					58.2	0.1
WL	349.0	523.4	822.6	698.6					2392.6	2.7
DF	3492.4	1855.3	3601.5	1964.5	380	300	380	780	12,753.7	14.3
WH	12.9	6.8	8.8	5.4	20	20	20	60	153.9	0.2
WC	57.2	13.2	59.4	99.1					228.9	0.3
LP									0	0
ES	1436.2	877.7	1077.1	598.4	1940	1000	900	1320	9149.4	10.2
AF	23.3	16.1	33.0	8.1	1580	780	800	1080	4320.5	4.8
PP									0	0
TOTALS	5389.6	3305.3	5619.9	3383.4	3920	2100	2100	3240	29,058.2	--
TOTALS IN t/ha	6.0	3.7	6.3	3.8	4.4	2.4	2.4	3.6	--	32.6

Table 90. --Preharvest crown weights by component and species for clearcut, current sawlog utilization, 13-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	46.4	36.1	53.3	36.1					171.9	0.2
WL	576.0	863.9	1357.6	1151.9					3949.4	4.4
DF	2332.1	1332.6	2582.0	1998.9	340	240	440	380	9645.6	10.8
WH	360.3	185.6	294.8	251.1	1200	640	720	1260	4911.8	5.5
WC	63.6	15.9	46.1	33.4					159.0	0.2
LP	26.7	21.9	27.7	19.1					95.4	0.1
ES	1471.9	899.5	1103.9	613.3	1240	640	580	880	7428.6	8.3
AF	25.5	15.1	23.4	4.8	1220	600	580	1040	3508.8	3.9
PP									0	0
TOTALS	4902.5	3370.6	5488.8	4108.6	4000	2120	2320	3560	29,870.5	--
TOTALS IN t/ha	5.5	3.8	6.2	4.6	4.5	2.4	2.6	4.0	--	33.5

Table 91. --Preharvest crown weights by component and species for clearcut, near complete removal, 13-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	15.5	10.6	14.5	7.7	20			20	88.3	0.1
WC	77.4	116.1	182.5	154.9				20	550.9	0.6
DF	3147.4	1798.5	3484.6	2697.8	1980	1300	2100	2080	18,588.3	20.8
WH	10.1	5.3	6.9	4.3	60	40	40	100	266.6	0.3
WC									0	0
LP									0	0
ES	688.9	421.0	516.7	287.0	860	440	400	540	4153.6	4.7
AF	139.9	83.2	128.5	26.5	380	200	280	200	1438.1	1.6
PP									0	0
TOTALS	4079.2	2434.7	4333.7	3178.2	3300	1980	2820	2960	24,885.8	--
TOTALS IN t/ha	4.6	2.7	4.9	3.6	3.7	2.2	3.2	3.3	--	28.2

Table 92. --Preharvest crown weights by component and species for clearcut, intensive log utilization, 13-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	25.2	17.3	23.6	12.6					78.7	0.09
WL	266.7	400.0	628.6	342.9					1638.2	1.8
DF	3486.0	1992.0	3859.5	2988.0	1400	1060	1660	1740	18,185.5	20.4
WH	44.9	23.2	36.8	31.3	100	40	60	80	416.2	0.5
WC									0	0
LP	24.6	20.2	25.4	17.5					87.7	0.1
ES	1563.5	955.5	258.0	651.4	540	260	240	360	4828.4	5.4
AF	79.0	47.0	72.6	14.9	680	340	300	540	2073.5	2.3
PP									0	0
TOTALS	5489.9	3455.2	4904.5	4058.6	2720	1700	2260	2720	27,308.2	--
TOTALS IN t/ha	6.2	3.9	5.5	4.5	3.0	1.9	2.5	3.0	--	30.5

Table 93. --Preharvest crown weights by component and species for shelterwood, intensive tree utilization, 21-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	4.6	3.2	4.3	2.3	80	40	40	60	234.4	0.3
WC	378.9	568.4	893.1	757.8	80	100	100	760	3638.2	4.1
DF	3025.9	1607.5	3120.5	1702.1	3100	2240	3400	3740	21,936.0	24.6
WH									0	0
WC									0	0
LP	23.2	18.8	24.6	5.8	380	280	340	680	1752.4	2.0
ES	303.9	185.7	227.9	126.6	180	80	60	120	1284.1	1.4
AF	991.1	683.5	1401.2	341.7	1580	840	1080	860	7777.5	8.7
PP									0	0
TOTALS	4727.6	3067.1	5671.6	2936.3	5400	3580	5020	6220	36,622.6	--
TOTALS IN t/ha	5.3	3.4	6.4	3.3	6.0	4.0	5.6	7.0	--	41.1

Table 94. --Preharvest crown weights by component and species for shelterwood, current sawlog utilization, 21-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	62.0	42.6	58.1	31.0					193.7	0.2
WL	514.0	771.0	1211.5	1027.9	80	80	80	460	422.4	4.7
DF	3081.2	1640.7	3177.5	1733.2	1560	1080	1580	2220	16,072.6	18.0
WH									0	0
WC									0	0
LP	23.7	19.5	24.6	17.0					84.8	0.1
ES	353.2	215.9	264.9	147.2	700	360	340	360	2741.2	3.1
AF	1151.9	794.4	1628.6	397.2	2260	1140	1240	1820	10,432.1	11.7
PP									0	0
TOTALS	5186.0	3484.1	6365.2	3353.5	4600	2660	3240	4860	33,748.8	--
TOTALS IN t/ha	5.8	3.9	7.1	3.8	5.2	3.0	3.6	5.4	--	37.8

Table 95. --Preharvest crown weights by component and species for shelterwood, near complete removal, 21-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	11.8	8.1	11.0	5.9					36.8	0.04
WL	75.9	107.1	147.3	102.7	200	240	300	1680	2853.0	3.2
DF	3257.5	1730.6	3359.3	1832.4	1340	1020	1480	2260	16,279.8	18.2
WH									0	0
WC									0	0
LP	11.4	9.2	12.1	2.8					35.5	0.04
ES	265.4	162.2	199.0	110.6	1160	620	540	640	3697.2	4.1
AF	592.7	352.4	544.6	112.1	5180	2760	3400	3140	16,081.8	18.0
PP									0	0
TOTALS	4214.7	2369.6	4273.3	2166.5	7880	4640	5720	7720	38,984.1	--
TOTALS IN t/ha	4.7	2.7	4.8	2.4	8.8	5.2	6.4	8.6	--	43.6

Table 96. --Preharvest crown weights by component and species for shelterwood, intensive log utilization, 21-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	74.6	45.1	56.9	19.6	60	20	40	80	396.2	0.4
WL	303.0	454.5	714.2	606.0	220	280	280	1500	4357.7	4.9
DF	2986.4	1586.5	3079.7	1679.8	2580	1920	2940	3620	20,392.4	22.8
WH	11.8	6.1	9.7	8.2					35.8	0.04
WC	25.7	5.9	19.8	22.0					73.4	0.1
LP	15.6	14.3	16.9	18.2					65.0	0.1
ES	599.5	366.4	449.6	249.8	1120	560	500	660	4505.3	5.0
AF	901.8	536.2	828.7	170.6	3360	1720	1980	2280	11,777.3	13.2
PP									0	0
TOTALS	4918.4	3015.0	5175.5	2774.2	7340	4500	5740	8140	41,603.1	--
TOTALS IN t/ha	5.5	3.4	5.8	3.1	8.2	5.0	6.4	9.1	--	46.5

Table 97. --Preharvest crown weights by component and species for group selection, intensive tree utilization, 22-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	242.2	363.3	571.0	484.5					1661.0	1.9
DF	2771.3	1583.6	3068.3	2375.4	1020	740	1320	820	13,698.6	15.3
WH									0	0
WC									0	0
LP	349.1	286.8	361.6	249.4	280	120	120	180	1946.9	2.2
ES	528.8	323.2	396.6	220.4	620	340	300	340	3069.0	3.4
AF	681.2	469.8	963.1	234.9	2040	1000	1000	1440	7829.0	8.8
PP									0	0
TOTALS	4572.6	3026.7	5360.6	3564.6	3960	2200	2740	2780	28,104.5	--
TOTALS IN t/ha	5.1	3.4	6.0	4.0	4.4	2.5	3.1	3.1	--	31.6

Table 98. --Preharvest crown weights by component and species for group selection, current sawlog utilization, 22-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	613.1	919.7	1635.0	1686.1					4853.9	5.4
DF	2771.3	3681.0	6795.6	11,042.9	200	140	180	280	25,090.8	28.1
WH									0	0
WC									0	0
LP	349.1								349.1	0.4
ES	528.8	1427.4	1751.9	973.3	120	60	40	80	4981.4	5.6
AF	681.2	526.4	1079.1	263.2	3180	1660	1860	1900	11,149.9	12.5
PP									0	0
TOTALS	4943.5	6554.5	11,261.6	13,965.5	3500	1860	2080	2260	46,425.1	--
TOTALS IN t/ha	5.5	7.3	12.6	15.6	3.9	2.1	2.3	2.5	--	52.0

Table 99. --Preharvest crown weights by component and species for group selection, near complete removal, 22-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	42.6	29.3	39.9	21.3				20	153.1	0.2
WL	123.8	167.2	204.3	111.4					606.7	0.7
DF	3799.8	2171.3	4206.9	3257.0	1780	1220	1880	1900	20,115.0	22.5
WH									0	0
WC									0	0
LP	202.5	166.4	209.8	144.7					723.4	0.8
ES	285.8	156.5	170.1	68.0	300	160	180	120	1440.4	1.6
AF	2235.6	1541.8	3160.6	770.9	4540	2400	2980	2460	20,088.9	22.5
PP									0	0
TOTALS	6690.1	4232.5	7991.6	4373.3	6620	3780	5040	4500	43,127.5	--
TOTALS IN t/ha	7.5	4.7	9.0	4.9	7.4	4.2	5.6	5.0	--	48.3

Table 100. --Preharvest crown weights by component and species for group selection, intensive log utilization, 22-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	380.0	536.4	737.6	514.1					2168.1	2.4
DF	6809.4	3891.1	7539.0	5836.6	560	440	640	820	26,536.1	29.7
WH									0	0
WC									0	0
LP	47.8	39.3	49.5	34.2					170.8	0.2
ES	1115.4	681.6	836.0	464.8	20			20	3137.8	3.5
AF	2676.8	1446.9	2966.1	723.5	3620	1920	2240	1680	17,273.3	19.3
PP									0	0
TOTALS	11,029.4	6595.3	12,128.2	7573.2	4200	2360	2880	2520	49,286.1	--
TOTALS IN t/ha	12.4	7.4	13.6	8.5	4.7	2.6	3.2	2.8	--	55.2

Table 101. --Preharvest crown weights by component for clearcut, intensive tree utilization, 23-1.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	35.8	24.6	33.6	17.9					111.9	0.1
WL	257.6	386.4	607.2	515.2					1766.4	2.0
DF	2411.6	1378.1	2670.0	2067.1	220	160	240	300	9446.8	10.6
WH									0	0
WC									0	0
LP	8.2	6.8	8.5	5.9					29.4	0.03
ES	666.2	407.1	499.6	277.6	40	20	20	60	1990.5	2.2
AF	1537.1	1060.1	2173.2	530.0	4120	2180	2660	2360	16,620.4	18.6
PP									0	0
TOTALS	4916.5	3263.1	5992.1	3413.7	4380	2360	2920	2720	29,965.4	--
TOTALS IN t/ha	5.5	3.7	6.7	3.8	4.9	2.6	3.3	3.0	--	33.5

Table 102. --Preharvest crown weights by component and species for clearcut, current sawlog utilization, 23-2.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	15.9	12.4	18.3	12.4					59.0	0.1
WL	244.7	367.0	652.5	672.9					1937.1	2.2
DF	3206.5	1795.7	3591.3	4104.4	160	120	140	280	13,397.9	15.0
WH									0	0
WC									0	0
LP									0	0
ES	1082.7	661.7	812.0	451.0	700	340	340	380	4767.5	5.3
AF	2030.5	1400.3	2860.7	700.2	3800	2020	2500	2440	17,761.7	19.9
PP									0	0
TOTALS	6580.3	4237.1	7944.8	5941.0	4660	2480	2980	3100	37,923.2	--
TOTALS IN t/ha	7.4	4.7	8.9	6.7	5.2	2.8	3.3	3.5	--	42.5

Table 103.--Preharvest crown weights by component and species for clearcut, near complete removal, 23-3.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	14.9	10.3	14.0	7.5					46.7	0.05
WL	23.0	34.5	54.3	46.1					157.9	0.2
DF	1651.7	943.8	1828.6	1415.7	80	60	80	120	6179.8	6.9
WH									0	0
WC									0	0
LP									0	0
ES	561.2	342.9	420.9	233.8	260	140	140	80	2178.8	2.4
AF	1093.3	754.0	1545.7	377.0	2000	1040	1220	1480	9510.0	10.7
PP									0	0
TOTALS	3344.1	2085.5	3863.5	2080.1	2340	1240	1440	1680	18,073.2	--
TOTALS IN t/ha	3.7	2.3	4.3	2.3	2.6	1.4	1.6	1.9	--	20.2

Table 104.--Preharvest crown weights by component and species for clearcut, intensive log utilization, 23-4.

SPECIES	SAWTIMBER (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	17.4	15.9	23.5	19.0					75.8	0.1
WL	210.6	316.0	496.5	421.3					1444.4	1.6
DF	1801.5	1029.5	1994.6	1544.2	400	280	440	400	7889.8	8.8
WH									0	0
WC									0	0
LP									0	0
ES	928.9	567.7	696.7	387.0	840	400	380	440	4640.3	5.2
AF	1430.2	986.3	2022.0	493.2	4320	2320	2920	2180	16,671.7	18.7
PP									0	0
TOTALS	4388.6	2915.4	5233.3	2864.7	5560	3000	3740	3020	30,722.0	--
TOTALS IN t/ha	4.9	3.3	5.9	3.2	6.2	3.4	4.2	3.4	--	34.4

PART VI -- POSTHARVEST CROWN WEIGHTS[1]

Page

Table 105.--Postharvest crown weights by component and species for shelterwood, intensive tree utilization, 11-1..... 119

Table 106.--Postharvest crown weights by component and species for shelterwood, current sawlog utilization, 11-2..... 120

Table 107.--Postharvest crown weights by component and species for shelterwood, near complete removal, 11-3..... 121

Table 108.--Postharvest crown weights by component and species for shelterwood, intensive log utilization, 11-4..... 122

Table 109.--Postharvest crown weights by component and species for group selection, intensive tree utilization, 12-1..... 123

Table 110.--Postharvest crown weights by component and species for group selection, near complete removal, 12-3..... 124

Table 111.--Postharvest crown weights by component and species for group selection, intensive log utilization, 12-4..... 125

Table 112.--Postharvest crown weights by component and species for clearcut, near complete removal, 13-3..... 126

Table 113.--Postharvest crown weights by component and species for clearcut, intensive log utilization, 13-4..... 127

Table 114.--Postharvest crown weights by component and species for shelterwood, intensive tree utilization, 21-1..... 128

Table 115.--Postharvest crown weights by component and species for shelterwood, current sawlog utilization, 21-2..... 129

Table 116.--Postharvest crown weights by component and species for shelterwood, near complete removal, 21-3..... 130

Table 117.--Postharvest crown weights by component and species for shelterwood, intensive log utilization, 21-4..... 131

Table 118.--Postharvest crown weights by component and species for group selection, intensive tree utilization, 22-1..... 132

Table 119.--Postharvest crown weights by component and species for group selection, intensive log utilization, 22-4..... 133

Page

Table 120.--Postharvest crown weights by component and species for clearcut, near complete removal, 23-3..... 134

Table 121.--Postharvest crown weights by component and species for clearcut, intensive log utilization, 23-4..... 135

[1]The following block-treatment combinations had no postharvest data: 12-2, 13-1, 13-2, 22-2, 22-3, 23-1, 23-2.

Table 105.--Postharvest crown weights by component and species for shelterwood, intensive tree utilization, 11-1.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	371.5	557.3	875.7	743.0	40	40	60	80	2767.5	3.1
DF	2613.4	1388.4	2695.1	1470.0	320	200	360	320	9366.9	10.5
WH	58.8	29.4	56.7	65.1					210.0	0.2
WC	22.2	5.2	18.5	28.1					74.0	0.1
LP	62.0	50.4	65.9	15.5					193.8	0.2
ES	664.4	363.8	395.5	158.2	520	280	240	380	3001.9	3.4
AF	79.5	47.3	73.1	15.1					215.0	0.2
TOTALS	3871.8	2441.8	4180.5	2495.0	880	520	660	780	15,829.1	--
TOTALS IN t/ha	4.3	2.7	4.7	2.8	1.0	0.6	0.7	0.9	--	17.7

Table 106.--Postharvest crown weights by component and species for shelterwood, current sawlog utilization, 11-2.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	4.2	2.9	3.9	2.1					13.1	0.01
WL	318.5	449.7	618.3	430.9					1817.4	2.0
DF	1624.1	862.8	1674.9	913.6	40	20	20	60	5215.4	5.8
WH	1.6	0.8	1.1	0.7					4.2	0
WC	2.4	0.6	1.6	0.7					5.3	0.01
LP	48.7	39.5	51.7	12.2	60	40	60	60	372.1	0.4
ES	374.7	205.2	223.0	89.2	100	40	40	80	1152.1	1.3
AF	62.1	36.9	57.0	11.7					167.7	0.2
TOTALS	2436.3	1598.4	2631.5	1461.1	200	100	120	200	8747.3	--
TOTALS IN t/ha	2.7	1.8	2.9	1.6	0.2	0.1	0.1	0.2	--	9.7

Table 107.--Postharvest crown weights by component and species for shelterwood, near complete removal, 11-3.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL	319.7	451.3	620.6	432.5					1824.1	2.0
DF	2086.6	1108.5	2151.9	1173.7	500	340	640	320	8320.7	9.3
WH	21.5	11.1	17.6	15.0					65.2	0.1
WC	34.8	8.0	26.9	29.9					99.6	0.1
LP	42.7	34.7	45.4	10.7					133.5	0.15
ES	329.2	180.3	196.0	78.4					783.9	0.9
AF	56.3	33.5	51.8	10.7					152.3	0.2
TOTALS	2890.8	1827.4	3110.2	1750.9	500	340	640	320	11,379.3	--
TOTALS IN t/ha	3.2	2.0	3.5	2.0	0.6	0.4	0.7	0.4	--	12.8

Table 108.--Postharvest crown weights by component and species for shelterwood, intensive log utilization, 11-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	2.7	1.7	2.1	0.7					7.2	0.01
WL	243.4	365.1	573.8	486.9	60	60	60	540	2389.2	2.7
DF	1894.7	1006.6	1953.9	1065.8	940	700	1000	1580	10,141.0	11.4
WH	9.8	5.1	6.7	4.1					25.7	0.03
WC	10.3	2.6	7.5	5.4					25.8	0.03
LP	83.7	68.0	89.0	20.9	20			20	301.6	0.3
ES	472.6	258.8	281.3	112.5	2400	1240	1100	1800	7665.2	8.6
AF	47.0	27.9	43.2	8.9					127.0	0.1
TOTALS	2764.2	1735.8	2957.5	1705.2	3420	2000	2160	3940	20,682.7	--
TOTALS IN t/ha	3.1	1.9	3.3	1.9	3.8	2.2	2.4	4.4	--	23.1

Table 109.--Postharvest crown weights by component and species for group selection, intensive tree utilization, 12-1.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					20	20	20	80	140.0	0.2
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF									0	0
TOTALS					20	20	20	80	140.0	--
TOTALS IN t/ha					0.02	0.02	0.02	0.1	--	0.2

Table 110.--Postharvest crown weights by component and species for group selection, near complete removal, 12-3.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF								20	20.0	0.02
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF					40	20	20	20	100.0	0.1
TOTALS					40	20	20	40	120.0	--
TOTALS IN t/ha					0.04	0.02	0.02	0.04	--	0.1

Table 111.--Postharvest crown weights by component and species for group selection, intensive log utilization, 12-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					980	740	1040	2020	4780.0	5.4
WH									0	0
WC									0	0
LP									0	0
ES								20	20.0	0.02
AF					40	20	20	40	120.0	0.1
TOTALS					1020	760	1060	2080	4920.0	--
TOTALS IN t/ha					1.1	0.8	1.2	2.3	--	5.5

Table 112.--Postharvest crown weights by component and species for clearcut, near complete removal, 13-3.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					40		20	60	120.0	0.1
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF									0	0
TOTALS					40	0	20	60	120.0	--
TOTALS IN t/ha					0.04	0	0.02	0.1	--	0.1

Table 113.--Postharvest crown weights by component and species for clearcut, intensive log utilization, 13-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					80	60	80	180	400.0	0.5
WH									0	0
WC									0	0
LP									0	0
ES					320	160	160	200	840.0	0.9
AF					360	180	120	260	920.0	1.0
TOTALS					760	400	360	640	2160.0	--
TOTALS IN t/ha					0.8	0.4	0.4	0.7	--	2.4

Table 114.--Postharvest crown weights by component and species for shelterwood, intensive tree utilization, 21-1.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	4.8	2.9	3.6	1.3					12.6	0.01
WL	373.5	527.2	724.9	505.3					2130.9	2.4
DF	2587.6	1398.7	2307.9	699.4	160	120	220	180	7673.6	8.6
WH									0	0
WC									0	0
LP	110.4	89.7	117.3	27.6					345.0	0.4
ES	167.4	102.3	125.6	69.8					465.1	0.5
AF	790.1	469.8	726.0	149.5	200	120	180	80	2715.4	3.0
TOTALS	4033.8	2590.6	4005.3	1452.9	360	240	400	260	13,342.6	--
TOTALS IN t/ha	4.5	2.9	4.5	1.6	0.4	0.3	0.4	0.3	--	14.9

Table 115.--Postharvest crown weights by component and species for shelterwood, current sawlog utilization, 21-2.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	54.8	37.7	51.4	27.4					171.3	0.2
WL	302.9	454.4	714.0	605.8					2077.1	2.3
DF	2157.5	1146.2	2225.0	1213.6	200	140	260	140	7482.3	8.4
WH									0	0
WC									0	0
LP	22.7	18.6	23.5	16.2					81.0	0.1
ES	340.1	186.3	202.5	81.0					809.9	0.9
AF	536.5	319.0	493.0	101.5	100	60	40	80	1730.0	1.9
TOTALS	3414.5	2162.2	3709.4	2045.5	300	200	300	220	12,351.6	--
TOTALS IN t/ha	3.8	2.4	4.2	2.3	0.3	0.2	0.3	0.2	--	13.8

Table 116.--Postharvest crown weights by component and species for shelterwood, near complete removal, 21-3.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	5.3	3.6	5.0	2.6					16.5	0.02
WL	84.6	114.2	139.6	76.2				20	434.6	0.5
DF	2486.7	1321.0	2564.4	1398.7					7770.8	8.7
WH									0	0
WC									0	0
LP									0	0
ES	327.2	179.2	194.8	77.9	260	140	140	100	1419.1	1.6
AF	289.2	172.0	265.8	54.7	180	100	140	60	1261.7	1.4
TOTALS	3193.0	1790.0	3169.6	1610.1	440	240	280	180	10,902.7	--
TOTALS IN t/ha	3.6	2.0	3.6	1.8	0.5	0.3	0.3	0.2	--	12.2

Table 117.--Postharvest crown weights by component and species for shelterwood, intensive log utilization, 21-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP	51.5	35.4	48.3	25.7	60	20	40	80	360.9	0.4
WL	270.8	382.3	525.6	366.4	120	140	160	600	2565.1	2.9
DF	2621.3	1416.9	2337.9	708.5	2140	1600	2480	2700	16,004.6	17.9
WH									0	0
WC	25.7	5.9	19.8	22.0					73.4	0.1
LP	21.7	17.8	22.4	15.5					77.4	0.1
ES	589.1	360.0	441.8	245.5	1040	560	480	560	4276.4	4.8
AF	461.4	274.3	424.0	87.3	2260	1160	1340	1300	7307.0	8.2
TOTALS	4041.5	2492.6	3819.8	1470.9	5620	3480	4500	5240	30,664.8	--
TOTALS IN t/ha	4.5	2.8	4.3	1.6	6.3	3.9	5.0	5.9	--	34.4

Table 118.--Postharvest crown weights by component and species for group selection, intensive tree utilization, 22-1.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF									0	0
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF					480	260	220	260	1220.0	1.4
TOTALS					480	260	220	260	1220.0	--
TOTALS IN t/ha					0.5	0.3	0.2	0.3	--	1.4

Table 119.--Postharvest crown weights by component and species for group selection, intensive log utilization, 22-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					180	160	200	300	840.0	0.9
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF					520	260	240	340	1360.0	1.5
TOTALS					700	420	440	640	2200.0	--
TOTALS IN t/ha					0.8	0.5	0.5	0.7	--	2.5

Table 120.--Postharvest crown weights by component and species for clearcut, near complete removal, 23-3.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					60	40	60	40	240.0	0.3
WH									0	0
WC									0	0
LP									0	0
ES									0	0
AF					220	120	140	80	560.0	0.6
TOTALS					280	160	200	160	800.0	--
TOTALS IN t/ha					0.3	0.2	0.2	0.2	--	0.9

Table 121.--Postharvest crown weights by component and species for clearcut, intensive log utilization, 23-4.

SPECIES	LEAVE TREES (9.0+ inches)				PERM PLOT (under 9 inches)				TOTALS	TOTALS IN t/ha
	Foliage	0-¼	¼-1	1-3	Foliage	0-¼	¼-1	1-3		
	lbs/acre									
WP									0	0
WL									0	0
DF					120	80	120	180	500.0	0.6
WH									0	0
WC									0	0
LP									0	0
ES					20			20	40.0	0.04
AF					480	240	240	320	1280.0	1.4
TOTALS					620	320	360	520	1820.0	--
TOTALS IN t/ha					0.7	0.4	0.4	0.6	--	2.0